

Chemical and Environmental Laboratory



Client Services Manual

Revision 1 March 2005 Revision 2 June 2013

Utah Public Health Laboratory

State of Utah Public Health Laboratory

BASIC INFORMATION

CONTACT US:

Address: Unified State Laboratories: Public Health

4431 South 2700 West

Taylorsville, UT 84129-8600

Phone: (801) 965-2400 **FAX:** (801) 584-8251

Website: http://health.utah.gov/lab

After hours, Holidays, and Emergency: 1-888-374-8824

For Scheduling Sample Testing: 801-965-2405 or 801-965-2470

MAP OF LOCATION:



CHEMICAL AND ENVIRONMENTAL LABORATORY KEY PERSONNEL & SCHEDULING:

Bret Van Ausdall, PhD: Laboratory Chief

David Dick: Sample Receiving

Steve Dickson: Manager of Inorganic Chemistry section

Kyle Ashby, PhD: Manager of Organic Chemistry, Radiochemistry, and Water Microbiology

Section

Robert Lo: Manager of Metals section.

Manual Edited by Jenna Moffatt, June 2013

Chemical and Environmental Laboratory – Client Services Manual State of Utah Public Health Laboratory

USE OF THIS CLIENT MANUAL

This manual is designed to provide a resource for sample collection and available testing information. Its contents are not to be used for regulatory purposes other than providing proper sample collection and preservation information. If you have any questions, please contact Bret Van Ausdall at (801) 965-2458 or (801) 965-2400.

For your benefit, there is a general description and list of tests for the Clean Water Act (CWA), Safe Drinking Water Act (SDWA), and the Resource Conservation Recovery Act (RCRA) on page 7.

To find a specific test, there is a Table of Contents on pages 4-5 and an Index on pages 76-77. There is also a Program Specific Index for each of the above mentioned acts that list each specific test covered by the act. These are located on pages 47-70. A special tests section for Unregulated Contaminant Monitoring Rule 3 (UCMR3) is located on pages 46-47. The Table of Contents is organized alphabetically by contaminant within each analytical section. Follow the page number to locate more details about each contaminant. The index in the back of the manual lists each test alphabetically along with their method numbers. Program specific indices are organized by the specific program, giving the analytes and tests codes.

Once a contaminant has been selected, specific information and testing instructions are located on the page dedicated to the test. The section (organic, inorganic, etc.) is listed at the top of the page. Next, the name and test codes are listed. Analytes being tested for and, if relevant, the grouping of the chemical will follow. To finish the listing, there are the instructions for collection, required types and number of bottles, preservative and handling information, and method technology. Utilize this information to gain a greater understanding of the specific test that is associated with each contaminant.

All information should be checked and confirmed to be accurate before testing. Instructions should be followed as stated and samples returned to the lab for processing.

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GENERAL LAB PRACTICES AND POLICES:

Our laboratory is responsible for the receipt and testing of chemicals and environmental microbial contaminants in drinking water, wastewater, environmental soils and hazardous waste. Testing is done to ensure compliance with health and safety standards established by Federal and Utah State agencies. Services are provided to Utah DEQ, public water and wastewater utilities, local health departments, as well as other state and federal agencies.

Laboratory business hours are Monday-Friday 8:00 AM- 5:00 PM. We are closed on holidays with the exception of emergencies. Our staff are on-call 24/7 to handle emergency situations, please call 1-888-374-8824 in case of emergency.

Labeled sample collection materials such as water bottles, glass vials, and solids containers may be obtained from the laboratory (free of charge). The laboratory tests each lot of containers to ensure they are free of contamination. The tested lot number appears on each container label.

A complete test sample submission form (provided when containers are picked up and also included at the end of this manual) should accompany all samples. Tests, which are needed by the client but are not performed in our laboratory, will be subcontracted to a commercial laboratory with approval from the client.

Test results are provided to the submitting client, to other individuals as authorized by the submitting client, and to state and/or federal regulatory agencies as required by law. Fees for laboratory services will be charged to the submitting client.

State of Utah Public Health Laboratory

Federal Act Summary

The Chemical and Environmental Laboratory provides testing to supply the Clean Water Act (CWA), Resource Conservation and Recovery Act (RCRA), and the Safe Drinking Water Act (SDWA).

Clean Water Act

The Clean Water Act (CWA) is a federal law, which regulates discharges into the navigable waters of the nation. The Utah Division of Water Quality (DWQ) within the Department of Environmental Quality's mission is to protect, maintain and enhance the quality of Utah's surface and underground waters for appropriate beneficial uses; and to protect the public health through eliminating and preventing water related health hazards which can occur as a result of improper disposal of human, animal, or industrial wastes while giving reasonable consideration to the economic impact.

The Utah Public Health Laboratory cooperates with the Division and performs requested water and soil analyses using EPA approved methods.

Resource Conservation and Recovery Act (RCRA) Summary Hazardous Waste and Emergency Response

The Resource Conservation and Recovery Act (RCRA) is a federal law which defines solid and hazardous wastes and defines requirements for their proper disposal. Both the Utah Division of Solid and Hazardous Waste (DSHW) and the Utah Division of Environmental Response and Remediation within the Department of Environmental Quality protect public health and the environment by ensuring proper management of solid and hazardous wastes and through cleanup of chemically contaminated sites and proper management of underground storage tanks.

The Utah Public Health Laboratories use methods outlined in EPA SW-846 or from other approved sources to test for RCRA contaminants.

Safe Drinking Water Act Summary

The Safe Drinking Water Act (SDWA) is a federal law which applies to all public water systems. Water systems on tribal lands are regulated by EPA Region 8 out of Denver. All other public water systems are regulated by the Utah Division of Drinking Water (DDW) within the Utah Department of Environmental Quality. DDW's mission is to protect the public against waterborne health risks through education, assistance, and oversight.

The Unified State Laboratories: Public Health is approved to conduct testing of water collected from public water systems according to EPA and State rules. It is not necessary to know the names of each analyte to be

requested, but general categories of analytical testing are listed below and can be selected on analysis request forms (see last pages of this manual).

Our lab is endorsed by the EPA to carry out tests for the contaminants that are outlined by these three federal regulations. In the back index, you can look up a contaminant by its specific act and then alphabetically by analyte. There are also method numbers for each analyte and a page.

State of Utah Public Health Laboratory

ORGANIC CHEMISTRY -

Name: Haloacetic Acids (HAA)

Test Code: SM 6251B-HAA



Grouping: **Disinfection By-Products**

Application: Water systems using chlorine or bromine for

disinfection.

Analytes: Dibromoacetic acid

Dichloroacetic acid Monobromoacetic acid Monochloroacetic acid Trichloroacetic acid

Instructions for Collection: Allow sample tap to run for a few minutes until water

temperature stabilizes. Slowly fill vials to top of container, be sure not to over fill to prevent loss of preservative. Check for air bubbles by inverting, and fill the remaining portion if bubbles

found. There must be no headspace.

Required Containers/Volume: 3/40 mL vials

Preservative and Handling: 65 mg NH₄Cl, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, holding times,

14 days to extract and 7 days to analyze

Method Technology: Liquid-liquid extraction followed by GC detection

Name: Trihalomethanes (THM)

Test Code: EPA 524.2-THM



Grouping: **Disinfection By-Products**

Application: Water systems using chlorine or bromine for

disinfection.

Analytes: Bromodichloromethane

Bromoform

Chlorodibromomethane

Chloroform

Instructions for Collection: Allow sample tap to run for a few minutes until water

temperature stabilizes. Slowly fill vials to top of container, be sure not to over fill to prevent loss of preservative. Check for air bubbles by inverting, and fill the remaining portion if bubbles

found. There must be no headspace.

Required Containers/Volume: 3/40 mL vials

Preservative and Handling: 4 mg Na₂S₂O₃, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

14 days.

Method Technology: Purge and trap technique followed by GCMS detection

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ORGANIC CHEMISTRY

Name: Volatile Organic Compounds (VOCs)

Test Codes: EPA 524.2-VOC, EPA 624-VOC, EPA 8260-VOC or EPA 1666- PMI-VOC





For lists of analytes see Program Specific Indexes



NOTE:

Prior to collection of EPA 624, EPA 8260, or EPA 1666 samples, analysis must be scheduled at (801) 965-2400.

If using Encore sampler, please bring to lab as soon as possible (within 48 hours). Clean Water Act (CWA).....page 49

Resource Conservation and Recovery Act

(RCRA).....page 56

Safe Drinking Water Act

(SWDA).....page 66

Instructions for Collection:

Caution: For surface waters and groundwater samples, check to see if HCl preservative reacts with source water (foams, effervesces, etc.) If reacts, do not add HCI. For aqueous samples, fill vials with sample source to top of container. Add 2 drops HCl acid to each vial, more drops needed if highly buffered source. Be sure not to over fill to prevent loss of preservative. Check for air bubbles by inverting, and fill the remaining portion if bubbles found. There must be no headspace.

Required Containers/Volume:

Drinking Water – 3/40mL vials, plus 1 trip blank Surface Water – 4/40 mL, plus 1 trip blank

*must use 4/40 mL vials-special prepared for chlorinated sites Groundwater – 4/40 mL vials, plus 1 trip blank, prepared and

delivered with sample bottles.

*must use 4/40 mL vials-special prepared for chlorinated sites Soil, solids, sludge – 4 oz. glass container with Teflon-lined lid

Preservative and Handling:

<u>Drinking Water</u> – 25 mg ascorbic acid, HCl to pH <2 <u>Surface Water and Method 1666–</u> 10 mg Na₂S₂O₃ for chlorinated sites and

*24 hour holding for water samples if there is no preservative added

HCl if needed

Groundwater – 10 mg Na₂S₂O₃ for chlorinated sites and HCl if needed All sample types, refrigerate or store on ice and do not allow to freeze,4-6°C recommend next day receipt at lab, total holding time 14 days, except Soil

14 days to extract and 14 days to analyze

Purge and trap technique followed by GCMS detection Method Technology:

Preparation Method: Water (EPA 624 and EPA 8260): EPA 3050

Soil (EPA 8260): EPA 3585

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ORGANIC CHEMISTRY

Name: Pesticides and other Semi-Volatile Organic Compounds (SVOCs)
Test Codes: EPA 525.2-SVOC , EPA 625-SVOC or EPA 8270-SVOC





For lists of analytes see Program Specific Indexes



(CWA)page 53	3
Resource Conservation and Recovery Act (RCRA)page	60
Safe Drinking Water Act (SWDA)page 69	

NOTE:

Prior to collection of EPA 525.2, EPA 625 or EPA 8270 samples, analysis must be scheduled at (801) 965-2400.

Instructions for Collection: For drinking water samples, pour the small vial of acid into each sample

bottle. Allow source to flow for a few minutes until water temperature stabilizes, **do not use Tygon tubing**. Slowly fill bottles to top of container,

be sure not to over fill to prevent loss of preservative.

Clean Water Act

Required Containers/Volume: <u>Drinking Water</u> – 2/1L amber glass bottles + acid vials

<u>Surface Water</u> – 2/1L amber glass bottles Groundwater – 2/1L amber glass bottles

Soil, solids, sludges - 4 oz. amber glass container with Teflon-lined lid

Preservative and Handling: Drinking Water – HCl to pH <2, 50 mg sodium sulfite

Surface Water - No preservative

Groundwater and Solids - No preservative

All sample types, refrigerate or store on ice 4-6°C and do not allow to

freeze, **recommend next day receipt at lab,** holding times: EPA 525.2 -14 days to extract and 30 days to analyze

EPA 625 and EPA 8270 – 7 days to extract and 40 days to analyze

Solids - 14 days to extract and 40 days to analyze

Method Technology: Liquid-solid extraction followed by GCMS detection

Preparation Method: Groundwater (EPA 8270)-EPA 3510

Soil-(EPA 8270)-EPA 3550

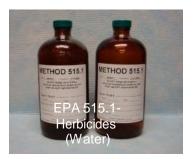
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ORGANIC CHEMISTRY

Name: Herbicides (Chlorinated Organic Acids)

Test Code: EPA 515.1-Herbicides or EPA 8151-Herbicides





Analytes: 2,4-D

2,4,5-TP (Silvex)

Dalapon Dicamba Dinoseb

Pentachorophenol

Picloram

Instructions for Collection: If applicable, allow sample tap to run for a few minutes until water

temperature stabilizes. Slowly fill bottles to top of container, be sure not to over fill to prevent loss of preservative. Collect per project sampling plan.

Required Containers/Volume: <u>Water</u> – 2/1L amber glass bottles

Soils, Solids, and Sludge- 4 oz. amber glass container with Teflon-lined lid

Preservative and Handling: 30 mg Na₂S₂O₃ if chlorinated, refrigerate or store on ice and do not allow

to freeze, recommend next day receipt at lab, holding times, 14 days to

extract and 28 days to analyze

Method Technology: EPA 515.1 and 8151 (Water)- Liquid-liquid extraction followed by GC

detection EPA 8151-(Soils) Solid-liquid extraction, then liquid-liquid

extraction followed by GC detection

Prep Method: EPA 515.1

Name: Carbamates (Insecticides and Aldicarbs)

Test Code: EPA 531.1



Analytes: 3 - Hydroxycarbofuran

Aldicarb (Temik)
Aldicarb sulfone
Aldicarb sulfoxide
Carbaryl (Sevin)
Carbofuran (Furadan)

Methomyl

Oxamyl (Vydate)

Instructions for Collection: Allow sample tap to run for a few minutes until water temperature

stabilizes. Slowly fill vial to top of container, be sure not to over fill to prevent loss of preservative. Check for air bubbles by inverting, and fill the remaining portion if bubbles found. There must be no headspace.

Required Containers/Volume: 40 mL amber glass vial

Preservative and Handling: 1.2 mL Monochloroacetic acid, refrigerate or store on ice and do not

allow to freeze, recommend next day receipt at lab, total holding time

28 days

Method Technology: Aqueous injection HPLC with post column derivation

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ORGANIC CHEMISTRY

Name: Pesticides (Phase II / Phase V)

Test Codes: VOCs*, Pesticides, SVOCs, Herbicides, and Carbamates



Grouping: Organic Testing
Application: Drinking Water

For lists of analytes see Program Specific Indexes

Safe Drinking Water Act (SWDA).....page 63

NOTE: Prior to collection of Pesticides (Phase II / Phase V) Organic Testing, analysis must be scheduled at (801) 965-2400.

* Pesticides (Phase II / Phase V) may be performed with or without VOC testing

Instructions for Collection: For VOC vials, add 2 drops HCl acid to each vial, more drops

needed if highly buffered source. For EPA 525.2-SVOC, pour

entire small vial of acid into each sample bottle.

Allow sample tap to run for a few minutes until water temperature stabilizes. Slowly fill to top of containers, be sure not to over fill to prevent loss of preservatives. Check for air bubbles by inverting, and fill the remaining portion if bubbles found. There must be no

headspace.

Required Containers/Volume: <u>VOCs</u> - 3/40mL vials, plus 1 trip blank

Pesticides and SVOCs - 2/1L amber glass bottles + acid vials

<u>Herbicides</u> - 2/1L amber glass bottles <u>Carbamates</u> - 40 mL amber glass vial

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding times:

VOCs - 14 days

Pesticides and SVOCs - 14 days to extract and 30 days to analyze

Herbicides - 14 days to extract and 28 days to analyze

Carbamates - 28 days

Methods Technologies: VOCs - Purge and trap technique followed by GCMS detection

SVOCs - Liquid-solid extraction followed by GCMS detection Herbicides - Liquid-liquid extraction followed by GC detection Carbamates - Aqueous injection HPLC with post column derivation

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ORGANIC CHEMISTRY

Name: Total Petroleum Hydrocarbons (TPH)

Test Code: EPA 8015-TPH



Analytes: GRO (C6-C10) – Gasoline Range Organics

DRO (C10-C28) – Diesel Range Organics ORO (C28-C35) – Oil Range Organics

Total TPH (GRO + DRO + ORO)

Instructions for Collection: If applicable, allow sample tap to run for a few minutes until water

temperature stabilizes. Slowly fill vials to top of container. Check for air bubbles by inverting, and fill the remaining portion if bubbles found. There

must be no headspace.

Required Containers/Volume: Water – 3/40 mL vials

Soil - 4 oz. glass container with Teflon-lined lid

Preservative and Handling: No preservative, refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, holding times, 14 days to extract and

40 days to analyze

Method Technology: Extraction technique (liquid-liquid, waste dilution) followed by GCFID

detection.

Preparation Method: Water-EPA 3510; Soil- EPA 3580

Name: Benzene, Toluene, Ethylbenzene, Xylene, and Naphtalene (BTEX N)

Test Code: SM 8260B BTEX N



Analytes: **B**enzene

Toluene

Ethylbenzene

Xylene

Naphtalene

Note: If using Encore sampler, please bring to lab as soon as possible (within 48 hours).

Instructions for Collection: If applicable, allow sample tap to run for a few minutes until water

temperature stabilizes. Slowly fill vials to top of container. Check for air bubbles by inverting, and fill the remaining portion if bubbles found. There

must be no headspace.

Required Containers/Volume: <u>Water</u> – 3/40 mL vials

Soil - 4 oz. glass container with Teflon-lined lid

Preservative and Handling: No preservative, refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding time 14 days

Method Technology: Purge and trap technique followed by GCMS detection

Preparation Method: Water-EPA 5030; Soil-EPA 3585

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ORGANIC CHEMISTRY

Name: Oil and Grease
Test Code: EPA 1664-O/G



Analyte: Total O/G (Oil and Grease)

Will be contracted to an outside laboratory with client approval.

Instructions for Collection: If applicable, allow source to flow for a few minutes until

water temperature stabilizes. Slowly fill containers to top, be

sure not to over fill to prevent loss of preservative.

Required Containers/Volume: <u>Water</u> – 1 L glass container with Teflon-lined lid

Soil - 4 oz. glass container with Teflon-lined lid

Preservative and Handling: H₂SO₄ to pH <2, refrigerate or store on ice and do not allow

to freeze, recommend next day receipt at lab, total

holding time 28 days from collection.

Method Technology: Liquid-solid extraction followed by Gravimetric detection

Name: Polychlorinated Biphenyls (PCBs) and Organochlorine Pesticides (OcPest)

Test Codes: EPA 608-PCB/OcPest or EPA 8081-OcPest and 8082-PCBs





For lists of analytes see Program Specific Indexes

Clean Water Act (CWA).....page 49

Resource Conservation and

Recovery Act (RCRA).....page 56

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: <u>Surface Water</u> – 1 L amber glass bottle

Groundwater - 1 L amber glass bottle

Soils, solids, sludge - 4 oz. amber glass container with Teflon-lined lid

Oil - 4 oz. amber glass container with Teflon-lined lid

Preservative and Handling: No preservative, refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, holding times, 7 days to extract and 40 days to analyze, except Soil 14 days to extract and 40 days to

analyze

Method Technology: Extraction technique (Liquid-liquid, sonication, waste dilution) followed

by GCMS detection

Preparation Method: Water- EPA 3510; Oils-EPA 3580; Soil-EPA 3550

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ORGANIC CHEMISTRY -

Name: Glycols (Ethylene and Propylene Glycols)

Test Code: EPG



Analytes: Ethylene Glycol

Propylene Glycol

Will be contracted to an outside laboratory with client approval. Bottles are to be obtained from contracted lab.

Instructions for Collection: If applicable, allow source to flow for a few minutes until water

temperature stabilizes. Slowly fill to top of container.

Required Containers/Volume: <u>Water</u> – 2/40 mL vials

Soil - 4 oz. glass container with Teflon-lined lid

Preservative and Handling: No preservative, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

28 days

Method Technology: Aqueous injection with GCFID detection

Name: Surfactants

Test Code: SM 5540C-Surfactants



Grouping: New Drinking Water Source

Analyte: Total Surfactants

NOTE: Prior to collection of Surfactants Testing,

analysis must be scheduled at (801) 965-2400.

Instructions for Collection: Allow sample tap to run for a few minutes until water

temperature stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L amber glass bottle

Preservative and Handling: No preservative, refrigerate or store on ice and do not allow

to freeze, recommend same day receipt at lab, total

holding time 48 hours

Method Technology: Extraction technique followed by MBAS detection

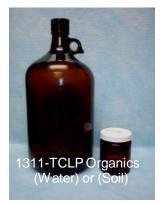
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ORGANIC CHEMISTRY

Name: RCRA Toxic Characteristic Leaching Procedure (TCLP)

Test Codes: TCLP-Organics (VOCs, SVOCs, Pesticides, and Herbicides)



Grouping: Organic Testing (RCRA)

NOTE: Prior to collection of EPA 1311-TCLP (water and soil) or EPA 1332-TCLP (oil), analysis must be

scheduled at (801) 965-2400.

Analytes:	Volatile Organic Compounds (VOCs)	<u>Pesticides</u>
•	D029 1,1 - Dichloroethene	Chlordane
	D028 1,2 - Dichloroethane	Endrin
	D027 1,4 - Dichlorobenzene	Heptachlor
	D018 Benzene	Heptachlor Epoxide
	D019 Carbon Tetrachloride	Lindane
	D021 Chlorobenzene	Methoxychlor
	D022 Chloroform	Toxaphene
	D035 Methyl Ethyl Ketone	
	D039 Tetrachloroethene	<u>Herbicides</u>
	D040 Trichloroethene	2,4 - D

Semi-Vol	atile Or	ganic	Compou	ınds	(SVOCs)	١

D030	2,4 - Dinitrotoulene	D024	m - Cresol
D041	2,4,5 - Trichlorophenol	D036	Nitrobenzene
D042	2,4,6 - Trichlorophenol	D023	o - Cresol
D032	Hexachlorobenzene	D025	p - Cresol
D033	Hexachlorobutadiene	D037	Pentachlorophenol

2,4,5 - TP (Silvex)

D034 Hexachloroethane D038 Pyridine

Instructions for Collection: Slowly fill to top of container.

Required Containers/Volume: Liquids – 4 L amber glass bottle

D043 Vinyl Chloride

Soil – 4 oz. amber glass container with Teflon-lined lid Oil – 4 oz. amber glass container with Teflon-lined lid

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze, **recommend**

next day receipt at lab, holding times:

SVOCs - 7 days to TCLP and 40 days to analyze VOCs - 14 days to TCLP and 40 days to analyze Pesticides - 7 days to extract and 40 days to analyze Solids - 14 days to extract and 40 days to analyze Herbicides - 14 days to extract and 28 days to analyze

Method Technology: Leaching procedure and extraction technique followed by GCMS

detection

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INORGANIC AND METAL CHEMISTRY

Name: New Drinking Water Source or "New Source Inorganics and Metals"

(46 parameters)

Test Code: Type 7 (Total Inorganics and Metals Chemistry)



Analytes: Odor (TON) D-Calcium

Surfactant D-Magnesium Filtered Metals

Alkalinity D-Potassium 250 mL plastic

Bicarbonate
Carbon Dioxide
Carbonate
Carbonate
Carbonate
Carbonate (CO3) Solids
Chloride
Corrosivity
Fluoride
Hardness

T-Sodium
T-Aluminum
T-Antimony
T-Arsenic
T-Barium
T-Berylium
T-Boron
T-Cadmium

D = Dissolved

T = Total

Total Chemistry
1 L plastic

Total Chemistry
1 L plastic

T-Cadmium
T-Chromium
T-Chromium
T-Copper

L = Lab measured

L-pH or F-pH

L-Specific Conductivity

T-Copper

Total Metals

T-Iron

250 mL plastic

T-Lead

Silica T-Lead
Total Dissolved Solids (TDS) T-Manganese
Total Suspended Solids (TSS) T-Mercury
Turbidity (NTU) T-Nickel
Cyanide T-Selenium
Sulfate T-Silver

Nutrient Analysis
500 mL plastic

T-Silver

Ammonia

T-Thallium

T-Zinc

Total Organ

T-Phosphate Total Organic Carbon (TOC)

Color

NOTE: Prior to collection of New Drinking Water Source samples, analysis must be scheduled with the laboratory at (801) 965-2400.

Instructions for Collection: Allow sample tap to run for a few minutes until water temperature

stabilizes. Slowly fill to top of bottles, be sure not to over fill to

prevent loss of preservatives.

Required Containers/Volume: 1 L Odor – amber glass bottle

1 L Surfactant – amber glass bottle

1 L Total Chemistry – unpreserved plastic bottle

500 mL Cyanide - plastic bottle

500 mL Nutrient Analysis - plastic bottle

**Metals Preserve with 250 mL Color – plastic bottle

HNO₃ **to pH <2.***250 mL Filtered Metals – plastic bottle

*250 ml Total Metals – plastic bottle

*250 mL Total Metals – plastic bottle 200 mL TOC – amber glass bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, must be received at lab

within 24 hours of collection time

Methods Technologies: Electrometric, Nephelometric, Gravimetric, Titration, Flow

Injection Colorimetry, Ion Chromatography, ICP, and ICPMS

Revision 2 17 ______ June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Annual Inorganics and Metals (18 parameters)

Test Code: Type 9 (Primary Inorganics and Metals Chemistry)

Type 9 (Primary Inorganics and Metals Chemistry)

Analytes: Cyanide Fluoride

Turbidity (NTU) Total Dissolved Solids (TDS)

T-Arsenic T-Barium
T-Berylium T-Cadmium
T-Chromium T-Copper
T-Lead T-Mercury
T-Nickel T-Selenium
T-Antimony T-Thallium
T-Sodium Sulfate

Instructions for Collection: Allow sample tap to flow for a few minutes until water

temperature stabilizes. Slowly fill containers to top, be sure not

to over fill to prevent loss of preservative.

Required Containers/Volume: 1 L Total Chemistry – unpreserved plastic bottle

250 mL Total Metals – plastic bottle 500mL Cyanide – plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, must be received at lab

within 24 hours of collection time

Methods Technologies: Nephelometric, Gravimetric, Flow Injection Colorimetry, Ion

Chromatography, ICP, and ICPMS

Name: Lead and Copper [Pb] and [Cu]
Test Code: EPA 200.8-Type 8 Metals (T-PB and T-CU)



Grouping: Metals

Application: Corrosion Control Assessment, Drinking Water

Analytes: Lead (T-Pb, Total)

Copper (T-Cu, Total)

Instructions for Collection: Allow sample tap to flow for a few minutes until water

temperature stabilizes. Slowly fill to line.

Required Containers/Volume: 1 L Lead and Copper – plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, holding times,

14 days to arrive at lab for preservation with HNO₃ to pH <2

and 6 months to analyze

Method Technology: Digestion technique followed by ICPMS detection

Revision 2 18 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Arsenic [As]

Test Code: EPA 200.8-T-AS , EPA 200.8-D-AS

FPA 200.8-Arsenic (Water, Total-Metals bottle)

Grouping: Metals

Applications: Arsenic Rule, Drinking Water

Surface Water

Analytes: Arsenic (T-As, Total)

Arsenic (D-As, Dissolved)

Instructions for Collection: Allow sample tap to flow for a few minutes until water

temperature stabilizes. Slowly fill to top of container, be sure

not to over fill to prevent loss of preservative.

Required Containers/Volume: 250 mL Total Metals – plastic bottle

Preservative and Handling: HNO₃ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

6 months

Method Technology: Digestion technique followed by ICPMS detection

Name: Mercury [Hg]

Test Codes: EPA 245.1-T-HG , EPA 245.1-D-HG , EPA 7471B (T-HG or D-HG)





Grouping: Metals

Applications: Drinking Water

Surface Water Soil, solids, sludge

Analytes: Mercury (T-Hg, Total)

Mercury (D-Hq, Dissolved)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill

to prevent loss of preservative.

Required Containers/Volume: <u>Water</u> – 250 mL Total Metals – plastic bottle

Soils, solids, sluge - 4 oz. glass container with Teflon-lined lid

Preservative and Handling: HNO₃ to pH <2, refrigerate or store on ice (4-6°C) and do not

allow to freeze, recommend next day receipt at lab, total

holding time 28 days, if not preserved, 24 hours.

Method Technology: Digestion technique followed by Cold Vapor AA detection

Revision 2 19 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Total-Metals and Dissolved-Metals (analytical groupings)

Test Codes: Total-Metals Type 7 , Type 9 **RCRA Types**

> 6010-Metals (Soil) Type 3 , Type 4 Filtered-Metals







Type 7
T-Aluminum
T-Arsenic
T-Barium T-
Boron
T-Cadmium
T-Calcium
T-Chromium
T-Copper
T-Iron
T-Lead
T-Manganese
T-Magnesium
T-Mercury
T-Nickel
T-Potassium
T-Sodium
T-Selenium
T-Silver
T-Zinc

RCRA8	RCRA 8+4+6
T-Arsenic T-	T-Arsenic
Barium	T-Barium
T-Cadmium T	-T-Cadmium
Chromium	T-Chromium
T-Lead	T-Lead
T-Mercury T-	T-Mercury
Selenium	T-Selenium
T-Silver	T-Silver
	T-Copper
DOD 4 0 4	T-Iron
RCRA 8+4	T-Manganese
T-Arsenic T-	T-Zinc
Barium	T-Aluminum
T-Cadmium T	T-Beryllium
Chromium	T-Cobalt
T-Lead	T-Molybdenum
T-Mercury T-	T-Nickel
Selenium	T-Vanadium
T-Silver	
T-Copper	
T-Iron	
T-Manganese	;

T-Zinc

NOTE: To test for Dissolved analytes, field filtration must be done at time of sample collection and Filtered-Metals bottle used

The constituents of the types are subject to change based upon customer request.

(Continued on Page 21)

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State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Total-Metals and Dissolved-Metals (analytical groupings)

Test Codes: Total-Metals Type 7 , Type 9 RCRA Types

Filtered-Metals Type 3 , Type 4 6010-Metals (Soil)

(Continued from Page 20)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 250 mL Total Metals – plastic bottle

250 mL Filtered Metals - plastic bottle

Soils, solids, sludge- 4 oz. glass container with Teflon-lined lid

Preservative and Handling: Liquids add HNO₃ to pH <2, refrigerate or store on ice and do not

allow to freeze, **recommend next day receipt at lab**, holding times,180 days to analyze, except Mercury 28 days to analyze.

24 hours for mercury if not preserved.

Methods Technologies: Digestion techniques (except for Drinking Water) followed by

analytical technique, ie: ICP (EPA 200.7, 6010), ICPMS (EPA 200.8, 6020), and Cold Vapor AA detections (EPA 245.1)

Name: Digestion Methods for Metals (Non-drinking water)

EPA 3010A TCLP & Total Metal Sample Digestion

EPA 200.8 Waste water, Groundwater and Drinking Water

EPA 3050B Solid and Hazardous Wastes

*NOTE: Drinking water does not require digestion unless water exceeds turbidity of 1

NTU

Analytical Methods for Metals

EPA 200.8 Drinking water and Groundwater

EPA 200.7 Drinking water, Groundwater, and Wastewater

EPA 6010 Wastes (SW 846), Water, Soil EPA 6020 Wastes (SW 846), Water, Soil

EPA 245.1 Mercury in Water (Prep Method 245.1) EPA 7471B Mercury in Soil (Prep Method 7471B)

Revision 2 21 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Ammonia [NH₃]
Test Code: EPA 350.1-NH3

NUTRIENT AN

OF THE PROPERTY O

Groupings: Total-Nutrients

Applications: Drinking Water

Surface Water

Analyte: Ammonia

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill

to prevent loss of preservative.

Required Containers/Volume: 500 mL Nutrient Analysis – plastic bottle

Preservative and Handling: H₂SO₄ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

28 days

Method Technology: Distillation technique followed by Flow Injection Colorimetry

Name: Phosphate [PO₄]

Test Codes: EPA 365.1-TPO4 , EPA 365.1-D-TP

EPA 365.1-Phosphate (Nutrient Analysis bottle)

Groupings: Total-Nutrients

Filtered-Nutrients

Applications: Drinking Water

Surface Water

Analytes: Phosphate (TPO4, Total)

Phosphate (D-TP, Dissolved)

Phosphate (Ortho)

NOTE: Prior to collection of Phosphate (Ortho), analysis

must be scheduled with the laboratory at (801)

965-2400.

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill

to prevent loss of preservative.

Required Containers/Volume: 500 mL Nutrient Analysis – plastic bottle

Preservative and Handling: H₂SO₄ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

28 days, for Phosphate (Ortho) contact laboratory

Method Technology: Digestion technique followed by Flow Injection Colorimetry

Revision 2 22 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Nitrate and Nitrite $[NO_3+NO_2]$, Nitrite $[NO_2]$

Test Codes: EPA 353.2-NO2+NO3 **EPA 353.2-NO2**





Groupings: **Total-Nutrients Filtered-Nutrients**

Applications: Drinking Water

Surface Water

Analytes: Nitrate/Nitrite (NO2+NO3)

Nitrite (NO2)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 120 mL Nitrate – plastic bottle

500 mL Total Nutrients – plastic bottle (also applicable)

120 mL Nitrite - unpreserved plastic bottle

Preservative and Handling: Nitrate – H_2SO_4 to pH <2, refrigerate or store on ice and do not

allow to freeze, recommend next day receipt at lab, total

holding time 28 days

NOTE: **Prior to collection of Nitrate**

and Nitrite, analysis must be scheduled at (801) 965-2400.

Nitrite – No preservative, refrigerate or store on ice and do not allow to freeze, recommend next day receipt at lab, total

holding time 48 hours

Method Technology: Flow Injection Colorimetry

Name: Sulfate [SO₄]

Test Codes: EPA 300.0-SO4C **EPA 375.2-SO4**





Applications: **Drinking Water**

Surface Water

Analyte: Sulfate

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 120 mL Sulfate – unpreserved plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding time

28 days

Method Technology: Ion Chromatography and Flow Injection Colorimetry

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State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Total-Nutrients and Dissolved-Nutrients (analytical groupings)

Test Codes: Total-Nutrients Type 2 , Type 3 , Type 6

Filtered-Nutrients Type 9



Type 2 Type 6

Ammonia Phosphate (T-PO4)
Phosphate (T-PO4) Nitrate+Nitrite (NO2+N

Type 3

Ammonia Phosphate (D-TP)
Phosphate (T-PO4) D-Nitrate+Nitrite (NO23)
Nitrate+Nitrite (NO2+NO3) D-Total Nitrogen

Type 9



D = Dissolved

T = Total

NOTE: To test for Dissolved analytes, field filtration must be done at time of sample collection and Filtered-Nutrients bottle used.

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 500 mL Nutrient Analysis – plastic bottle

250 mL Filtered Nutrients - plastic bottle

Preservative and Handling: H₂SO₄ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

28 days

Methods Technologies: Digestion techniques (except for Nitrate+Nitrite) followed by Flow

Injection Colorimetry

Revision 2 24 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Total-Nitrogen, Kjeldahl (TKN)

Test Codes: EPA 351.4



Applications: Drinking Water

Surface Water

Analyte: Nitrogen

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 500 mL Nutrient Analysis-plastic bottle

Preservative and Handling: H₂SO₄ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

28 days

Methods Technologies: Digestion techniques followed by Flow Injection Colorimetry

Name: Total-Nitrogen, Dissolved (DTN)

Test Codes: SM 4500N



Applications: Drinking Water

Surface Water

Analyte: Nitrogen

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 250 mL Filtered Nutrient-plastic bottle

Preservative and Handling: H₂SO₄ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

28 days

Methods Technologies: Flow Injection Colorimetry

Revision 2 25 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: pH

Test Code: EPA 150.1-pH



Grouping: Total-Chemistry

Applications: Drinking Water

Surface Water

Analyte: L-pH

L = Lab measured

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L Total Chemistry – unpreserved plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time 24 hours

Method Technology: Electrometric Measurement

Name: Conductivity

Test Code: EPA 120.1-COND



Grouping: Total-Chemistry

Applications: Total-Metals and Filtered-Metals

Corrosivity

Radiologic Testing

Analyte: L-Specific Conductance

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 120 mL Conductivity – unpreserved plastic bottle

1 L Total Chemistry – unpreserved plastic bottle (also applicable)

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding time 28 days

Method Technology: Specific Conductance

Name: Corrosivity

Test Code: EPA 1110 CORR Note: Corrosivity requires testing of Calcium, TDS,

Hardness, Alkalinity, and F-pH (field measured)

Required Containers/Volume: 250 mL Total Metals – plastic bottle (see page 20)

1 L Total Chemistry – plastic bottle (see page 35)

Method Technology: Calculation: Calcium, TDS, Hardness, Alkalinity, and F-pH levels

Revision 2 26 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Color NOTE: Prior to collection of Color, analysis must be scheduled at (801) 965-2400.

Test Code: **EPA110.2-L-COLR**

EPA 140.1-ODOR

Grouping: New Drinking Water Source

Applications: Drinking Water

Surface Water

Analyte: Color

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 250 mL Color – plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time 48 hours

Method Technology: Flow Injection Colorimetry

Name: Odor

NOTE: Prior to collection of Odor, analysis must be

Test Code: **EPA 140.1-ODOR scheduled at (801) 965-2400.**

Grouping: New Drinking Water Source

Applications: Drinking Water

Surface Water

Analyte: Odor, Threshold Odor Number (TON)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L Odor – amber glass bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time 24 hours

Method Technology: Odor Threshold (Consistent Series)

Name: Hardness (Total Hardness as CaCO₃)

Test Code: HARD Note: Hardness requires testing of Calcium and Magnesium

Required Containers/Volume: 250 mL Total Metals – plastic bottle (see page 20)

Method Technology: Calculation: Based on Calcium and Magnesium levels

Revision 2 27 June 2013

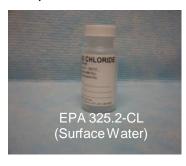
State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Bromide [Br] , Chloride [Cl]

Test Codes: EPA 300.1-BRIC , EPA 300.0-CLIC or EPA 325.2-CL





Grouping: **Disinfectants**Applications: Drinking Water

Surface Water

Analytes: Bromide

Chloride

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 120 mL Bromide and Chloride – unpreserved plastic bottle

120 mL Sulfate – unpreserved plastic bottle (also applicable)1 L Total Chemistry – unpreserved plastic bottle (also applicable)

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding time 28 days

Method Technology: Ion Chromatography and Flow Injection Colorimetry

Name: Bromate [BrO $_3$] , Bromide [Br] , Chlorate [ClO $_3$] , Chlorite [ClO $_2$] Test Codes: EPA 300.1-BRO3 , EPA 300.1-BRIC , EPA 300.1-CLO3 , EPA

300.1-CLO2

ETHOD 300.1

OR OVER FILL

EPA 300.1-BRO3, BRIC,

CLO₃

and -CLO2

Grouping: Inorganic Disinfection By-Products

Applications: Drinking Water

Surface Water

Analytes: Bromate

Bromide Chlorate Chlorite

NOTE: Prior to collection, analysis must be scheduled

with the laboratory at (801) 965-2400

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 100 mL Bromate, Chlorate, Chlorite – plastic bottle

Preservative and Handling: 25 mg Ethylenediamine, refrigerate or store on ice and do not

allow to freeze, **recommend next day receipt at lab**, holding times, 28 days to analyze, except Chlorite and Bromate require

14 days to analyze

Method Technology: Ion Chromatography

Revision 2 28 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Perchlorate [CIO₄]

Test Code: EPA 314.0-CLO4



Application: Drinking Water

Analytes: Perchlorate

Conductivity

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 120 mL Perchlorate – unpreserved plastic bottle

1L Total Chemistry – unpreserved plastic bottle (also applicable)

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding time

28 days

Method Technology: Ion Chromatography

Name: Cyanide [CN]
Test Code: EPA 335.4-CNCL



Applications: Drinking Water

Surface Water Groundwater

Analyte: Cyanide

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 500 mL Cyanide – plastic bottle

Preservative and Handling: 2g NaOH to pH >12, ascorbic acid in the presence of residual

chlorine, refrigerate or store on ice and do not allow to freeze, recommend next day receipt at lab, total holding time 14 days

Method Technology: Flow Injection Colorimetry (Distillation required before analysis)

Revision 2 29 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Fluoride [F]
Test Code: EPA 300.0-FLIC



Application: Drinking Water

Surface Water

Analyte: Fluoride

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 120 mL Fluoride – unpreserved plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding time

28 days

Method Technology: Ion Chromatography

Name: Sulfide [S]
Test Code: EPA 376.2-SULI



Applications: Drinking Water

Surface Water

Analyte: Sulfide

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill

to prevent loss of preservative.

Required Containers/Volume: 120 mL Sulfide – plastic bottle

Preservative and Handling: 3 drops Zinc Acetate and NaOH to pH >9, refrigerate or store

on ice and do not allow to freeze, recommend next day

receipt at lab, total holding time 7 days

Method Technology: Flow Injection Colorimetry

Revision 2 30 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Total Organic Carbon (TOC) , UV254

Test Codes: SM 5310B-TOC , SM 5910B-UV254





Grouping: Total-Nutrients

Water Treatment Technique

Applications: Drinking Water

Surface Water Groundwater

Analytes: TOC

UV254

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 200 mL TOC – amber glass bottle

200 mL UV254 - amber glass bottle

Preservative and Handling: $TOC - H_2SO_4$ to pH <2, refrigerate or store on ice and do not

allow to freeze, recommend next day receipt at lab, total

holding time 28 days

UV254 – No preservative, refrigerate or store on ice and do not

allow to freeze, recommend next day receipt at lab, total

holding time 48 hours

Method Technology: Combustion-Infrared Detection and UV Absorbance

Name: Alkalinity

Test Code: SM 2320B-ALK



Applications: Drinking Water

Surface Water

Analytes: Alkalinity

Carbonate Solids

Carbonate

Bicarbonate (BICD) Carbon Dioxide Hydroxide

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 120 mL Alkalinity – unpreserved plastic bottle

1L Total Chemistry – unpreserved plastic bottle (also applicable)

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, total holding time 14 days

Method Technology: pH Titration and Calculation

Revision 2 31 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Biological Oxygen Demand (BOD)

Test Codes: EPA 405.1-BOD, CBOD (Carbonate buffered BOD), SBOD

(Soluble BOD), SCBOD (Carbonations Soluble BOD)



Applications: Drinking Water

Surface Water

Analytes: BOD5 (5 day)

CBOD (5 day) SBOD (5 day) SCBOD (5 day)

Note: Please take into account that the completion of the 5 day

testing duration cannot fall on a weekend or holiday.

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 2 L BOD – unpreserved plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time

48 hours

Method Technology: Dissolved Oxygen Reduction over 5 days at 20 °C

Name: Turbidity

Test Code: EPA 180.1-TURB



Grouping: Total-Chemistry

Water Treatment Technique

Applications: Drinking Water

Surface Water

Analyte: Turbidity (NTU)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L Total Chemistry – unpreserved plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time 48 hours

Method Technology: Nephelometric Absorbance

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State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Chemical Oxygen Demand (COD)

Test Code: EPA 410.4-COD



Applications: Drinking Water

Surface Water

Analyte: COD

Will be contracted to an outside laboratory with

client's approval.

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill

to prevent loss of preservative.

Required Containers/Volume: 500 mL Nutrient Analysis – plastic bottle

Preservative and Handling: H₂SO₄ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

28 days

Method Technology: Spectrophotometry

Name: Chlorophyll-A Name: Periphyton

Test Code: SM 10200H-CH-A (modified) Test Code: SM 10300C (modified)



Applications: Surface Water

Analyte: Chlorophyll-A

Periphyton

Note: A separate filter is required for each individual test.

Instructions for Collection: Chlorophyll-A: Allow source to flow for a few minutes until water

temperature stabilizes. Filter 25 to 500 mL through glass fiber filter then place filter in opaque container. Also, make sure to

record sample volume filtered on test request form.

Periphyton: Follow sample collector's protocol or SM10200H

(modified)

Required Containers/Volume: Glass Fiber filter paper – store in opaque container (eg, film

canister) or follow sample collector's instructions

Preservative and Handling: Keep frozen, recommend next day receipt at lab, total holding

time 3 weeks

Method Technology: Homogenization followed by Spectrophotometry

Revision 2 33 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Solids

Test Codes: EPA 160.1-TDS , EPA 160.2-TSS , EPA 160.4-TVS ,

EPA 160.5-SS



Applications: Drinking Water

Surface Water

Analytes: Total Dissolved Solids (TDS) – filterable

Total Suspended Solids (TSS) – non-filterable

Total Volatile Solids (TVS)

Settable Solids (SS)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L Total Chemistry – unpreserved plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, holding times, 7 days to analyze, except SS 48 hours to analyze

Method Technology: Gravimetric detection

Name: Silica [SiO₂]
Test Code: EPA 370.1-SIO2



Applications: Drinking Water

Surface Water

Analyte: Silica (SIO2)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L Total Chemistry – unpreserved plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time 28 days

Method Technology: Flow Injection Colorimetry

Revision 2 34 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Total-Chemistry (analytical groupings)

Test Codes: Total-Chemistry Type 2 , Type 3 , Type 9





Type 2
pH Cyanide
Total Suspended Solids (TSS)

Type 9
Cyanide
Fluoride

Bicarbonate Turbidity (NTU)

Carbon Dioxide Total Dissolved Solids (TDS)

T-Arsenic Carbonate Chloride T-Barium Hydroxide T-Beryllium Sulfate T-Cadmium Alkalinity T-Chromium Turbidity (NTU) T-Copper L-Specific Conductance T-Lead Total Dissolved Solids (TDS) T-Mercury T-Nickel Type 3 T-Selenium Hq T-Antimony Total Suspended Solids (TSS) T-Thallium D-Calcium

D-Calcium

D-Magnesium

D-Potassium

D-Sodium

D-Sodium

D-Sodium
Bicarbonate
Carbon Dioxide
Carbonate
Chloride
Hydroxide

Sulfate D = Dissolved

Alkalinity T = Total

Hardness L = Lab measured

Turbidity (NTU)

L-Specific Conductance Total Dissolved Solids (TDS)

Carbonate Solids

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L Total Chemistry – unpreserved plastic bottle

Type 9 also under Annual Inorganics and Metals (see page 19)

1 L Total Chemistry – unpreserved plastic bottle

250 mL Total Metals – plastic bottle 500mL Cyanide – plastic bottle

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze, recommend

next day receipt at lab, total holding time 48 hours

Methods Technologies: Electrometric, Nephelometric, Gravimetric, Titration, Flow Injection

Colorimetry, Ion Chromatography, ICP, and ICPMS

Revision 2 35 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: Chromium-VI [Cr⁶⁺]

Test Code: EPA 218.7



Analyte: Chromium-VI (Hexavalent)

NOTE: Prior to collection of Chromium-VI samples,

analysis must be scheduled at (801) 965-2400.

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 120 mL Chromium-VI – plastic bottle

Preservative and Handling: 1 mL of (NH₄)₂SO₄/NH₄OH to 100 mL. Refrigerate or store on ice

and do not allow to freeze, recommend same day receipt at lab.

total holding time 14 days

Method Technology: Ion Chromatography

Name: Uranium [U]

Test Codes: EPA 200.8-UUMS (Total) , EPA 200.8-UFMS (Dissolved)





Applications: Drinking Water

Surface Water

Analytes: T-Thallium

T-Uranium (Unfiltered)
D-Uranium (Filtered)

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill containers to top, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: 250 mL Total Metals – plastic bottle

2 L RadioChem – plastic bottle (also applicable for Uranium)

Preservative and Handling: HNO₃ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

180 days

Method Technology: Digestion techniques (except for Drinking Water) followed by

ICPMS detection

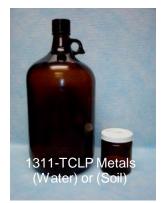
Revision 2 36 June 2013

State of Utah Public Health Laboratory

INORGANIC AND METAL CHEMISTRY

Name: RCRA Toxic Characteristic Leaching Procedure (TCLP)

Test Code: TCLP- Metals



Grouping: Inorganic Testing (RCRA)

NOTE: Prior to collection of 1311-TCLP (water and soil) or

1332-TCLP (oil), analysis must be scheduled at

(801) 965-2400.

Analytes:	RCRA 8	RCRA 8+4	RCRA 8+4+6
	DOOA T-Arsenic	D004 T-Arsenic	D004 T-Arsenic

D004	i -Arsenic	D004	I-AISenic	D004	i-Arsenic
D005	T-Barium	D005	T-Barium	D005	T-Barium
D006	T-Cadmium	D006	T-Cadmium	D006	T-Cadmium
D007	T-Chromium	D007	T-Chromium	D007	T-Chromium
D008	T-Lead	D008	T-Lead	D008	T-Lead
D009	T-Mercury	D009	T-Mercury	D009	T-Mercury
D010	T-Selenium	D010	T-Selenium	D010	T-Selenium
D011	T-Silver	D011	T-Silver	D011	T-Silver
			T-Copper		T-Copper

T-Copper T-Iron T-Iron

T-Manganese T-Manganese T-Zinc T-Zinc

nc I-Zinc T-Aluminum T-Beryllium

T-Cobalt T-Molybdenum

T-Nickel T-Vanadium

*Other metals may be analyzed, but must be specified on test request form. For complete list of metals see indexes or contact us 801-965-2400.

Instructions for Collection: Slowly fill to top of container.

Required Containers/Volume:

Soil - 4 oz. amber with Teflon-lined lid glass container

Preservative and Handling: Refrigerate or store on ice 4-6°C and do not allow to freeze,

Water - 4 L amber glass bottle

recommend next day receipt at lab, holding times, Metals - 7 days to TCLP and 180 days to analyze

except Mercury - 7 days to TCLP and 28 days to analyze

Method Technology: Method 1311 Leaching procedure and extraction technique

followed by Method 6010 ICP, Method 6020 ICPMS, and

Cold Vapor AA detections

Revision 2 37 June 2013

State of Utah Public Health Laboratory

ENVIRONMENTAL MICROBIOLOGY

Name: Total Coliform , Fecal Coliform and *E. coli*Test Codes: SM 9223B-Colilert , SM 9222B/9221E-mENDO+EC ,





SM9222B/9222D-mENDO+mFC

Applications: Drinking Water

Surface Water

Analytes: Total Coliforms

Fecal Coliforms

E. coli (Colilert test only)

NOTE: For Surface Water: Sample delivery should be within 2 hours and temperature should not exceed 10°C.

Instructions for Collection: Allow source to flow for a few minutes until water temperature stabilizes.

Slowly fill to between the line and the top of the bottle, be sure not to

over fill to prevent loss of preservative.

Required Containers/Volume: 120 mL Water Bacteriology – sterile plastic bottle

Preservative and Handling: 10 mg Na₂S₂O₃, refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time 30 hours,

except for Surface Water samples 8 hours

Method Technology: Chromofluorogenic, Membrane Filtration, and Fermentation

Name: Heterotrophic Plate Count (HPC)

Test Code: SM 9215B-HPC



Applications: Drinking Water

Pool/Spa Water

Reagent Water (Deionized, RO, Distilled, etc.)

Surface Water

Analyte: Heterotrophic Plate Count (total bacteria count)

Instructions for Collection: Allow source to flow for a few minutes until water temperature stabilizes.

Slowly fill to top of container, be sure not to over fill to prevent loss of

preservative.

Required Containers/Volume: 120 mL Water Bacteriology – sterile plastic bottle

Preservative and Handling: 10 mg Na₂S₂O₃, refrigerate or store on ice and do not allow to freeze,

recommend same day receipt at lab, total holding time 30 hours,

except for Surface Water samples 8 hours

Method Technology: Pour Plate Agar

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State of Utah Public Health Laboratory

ENVIRONMENTAL MICROBIOLOGY

Name: Cryptosporidium and Giardia

Test Code: EPA 1623-Protozoa





Grouping: **Water Treatment Technique**

Application: Surface Water Treatment Rule (LT2)

Analytes: Cryptosporidium (oocysts)

Giardia (cysts)

Will be contracted to an outside laboratory with client's approval.



Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. For bulk water samples, slowly fill to top of container. For field filtration, pressurized flow is necessary to pass the required 10 L (2.6 gal) volume through the capsule filter (a pump may be needed for stream flow analysis or where pressurized flow is not available). Also, make sure to record sample volume

filtered on test request form.

Required Containers/Volume: 1 μm pore size Pall *Envirochek HV* – capsule filter

20 L Carboy – plastic bottle (6-1 gal plastic jugs also applicable)

Preservative and Handling: Refrigerate or store on ice and do not allow to freeze,

recommend next day receipt at lab, holding times, 96 hours

to elution, 72 hours to staining, and 7 days to complete

microscopy analysis

For regulatory analysis, samples must arrive at laboratory at less

than 10 °C or arrive the same day as collected

Method Technologies: Filtration, Elution, Centrifugation, Immunomagnetic Separation,

Fluorescent-conjugated Antibody Staining, and Advanced

Microscopy with Differential Interference Contrast

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State of Utah Public Health Laboratory

ENVIRONMENTAL MICROBIOLOGY

Name: Legionella

Test Code: SM 9260J-Legionella



Applications: Drinking Water (Hot Water Tanks)

Air Handling (Swamp Coolers, Evaporators, etc.)

Analyte: Legionella

NOTE: Prior to collection of SM 9260J-Legionella samples, analysis must be scheduled at (801) 965 -2400. Batch analysis performed on third Thursday of each month).

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 2 L Legionella – unpreserved plastic bottle

Preservative and Handling: Same day receipt at lab, lab testing is started within 48 hours of

receiving sample

Method Technology: Filtration, Elution, MWY Agar, and Latex-Agglutination

**The State of Utah Public Health Laboratory is a member of the CDC's elite program for Legionella testing.

Name: **Enterococcus**

Will be contracted to an outside laboratory with

Test Code: Type 9-ECOCCI client's approval.

Note: Enterococcus tested with Total/Fecal Coliforms for Surface Water analysis

Required Containers/Volume: 120 mL Water Bacteriology – sterile plastic bottle (see page 38)

Method Technology: Enzyme Substrate

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State of Utah Public Health Laboratory

RADIOLOGIC CHEMISTRY

Name: Gross-Alpha , Gross-Beta , Uranium [U]

Test Codes: EPA 900.0-ALPG , EPA 900.0-BETG , EPA 200.8-UUMS*

EPA 200.8-UFMS*



Grouping: Radiologic Testing

Applications: Drinking Water

Surface Water

Analytes: Gross-Alpha

Gross-Beta

Uranium (UUMS-Unfiltered) Uranium (UFMS-Filtered)

Conductivity

NOTE: If Gross-alpha level is above 5 pCi/l, Radium-226

(page 42) must also be tested.

Uranium also listed under Inorganic Testing (see

page 36).

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to prevent loss of preservative. Do not pour from RadioChem bottle

to Conductivity bottle, must fill Conductivity separately.

Required Containers/Volume: Drinking Water

2 L RadioChem – plastic bottle

*250 mL Total Metals – plastic bottle (also applicable for Uranium)

120 mL Conductivity – plastic bottle

Surface Water

2 L RadioChem – plastic bottles

*250 mL Total Metals – plastic bottle (also applicable for Uranium)

120 mL Conductivity - plastic bottle

Preservative and Handling: HNO₃ to pH <2 (No preservation for conductivity bottle), **recommend**

next day receipt at lab, total holding time 180 days

Methods Technologies: Evaporation, Co-Precipitation, and Gas-Flow Proportional Counter

Uranium detected by ICPMS

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State of Utah Public Health Laboratory

RADIOLOGIC CHEMISTRY

Name: Radium-226 , Radium-228

Test Codes: EPA 903.1-226R , EPA 904.0-228R



Grouping: Radiologic Testing

Applications: Drinking Water

Surface Water

Analytes:

Radium-226 Radium-228

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill to

prevent loss of preservative.

Required Containers/Volume: Drinking Water

2 L RadioChem - plastic bottle

Surface Water

2 L RadioChem – plastic bottles

Preservative and Handling: HNO₃ to pH <2, refrigerate or store on ice and do not allow to

freeze, recommend next day receipt at lab, total holding time

180 days

Methods Technologies: Evaporation, Co-Precipitation, Emanation, and Gas-Flow

Proportional Counter

Revision 2 42 June 2013

State of Utah Public Health Laboratory

RADIOLOGIC CHEMISTRY

Name: Radon [Rn] , Gross Gamma
Test Codes: EPA 913.0-RN , EPA 901.1-GAMG

913.1-RN (Water)

Grouping: Radiologic Testing

Applications: Drinking Water

Surface Water

Analytes: Radon

Gamma Emission Conductivity



NOTE: Radon and Gross Gamma testing will be contracted to an outside laboratory with client's approval.



Instructions for Collection:

Allow source to flow for a few minutes until water temperature stabilizes. Slowly fill to top of container, be sure not to over fill to prevent loss of preservative. For Radon, check for air bubbles by inverting and fill the remaining portion if bubbles found. There must be no headspace. Also, do not pour from RadioChem bottle to Conductivity bottle, must fill Conductivity separately.

Required Containers/Volume:

Radon

3-40 mL Radon – unpreserved glass vials

Gross Gamma (Drinking Water)

2 L RadioChem – plastic bottle

120 mL Conductivity – plastic bottle

Gross Gamma (Surface Water)

2-2 L RadioChem – plastic bottles

120 mL Conductivity – plastic bottle

Preservative and Handling:

Radon - No preservative, use insulated packaging, mandatory

next day receipt at lab, total holding time 72 hours

Gross Gamma – HNO₃ to pH <2, recommend next day receipt at

lab, total holding time 180 days

Methods Technologies:

LS Counter and Gamma Spectrometer

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State of Utah Public Health Laboratory

SPECIALTY ANALYSES

Name: **Geosmin and MIB**Test Code: **EPA 525.2-ODOR**



Applications: Drinking Water

Analytes: Geosmin

2-Methylisoborneol (MIB)

NOTE: Prior to collection of EPA 525.2-ODOR samples,

analysis must be scheduled at (801) 965-2400, due to complex nature of testing procedures

(batch analysis is preferred).

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container.

Required Containers/Volume: 1 L Method EPA 525.2 Odor – amber glass bottle

Preservative and Handling: Same day receipt at lab, no holding time

Method Technology: Liquid-solid extraction followed by GCMS detection

Name: Lead (air samples)
Test Code: EPA 200.8-T-Pb



Application: Air Quality

Analyte: Lead (air sample particulate analysis)

Instructions for Collection: Air monitoring technique to capture particulates using filter paper.

Required Containers/Volume:

Preservative and Handling: Store filtered samples in plastic bag

Method Technology: Filter digestion followed by ICPMS detection

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State of Utah Public Health Laboratory

SPECIALTY ANALYSES

Unregulated Contaminant Monitoring Rule3 (UCMR3) Project (2013-2015)

According to the 1996 Safe Drinking Water Act (SDWA) a new list of 30 unregulated contaminants must be monitored every 5 years. The Chemical and Environmental Laboratory is certified by the EPA to test UCMR 1,2, and now 3 (List 1) from January 2013 through December 2015.

- Attn: Open tap and run 5 min before taking sample.
- Refrigerate all samples

If shipping, add appropriate coolant

EPTDS

- Additional 537 & 522 bottles for Matrix spike/Matrix spike duplicate
- One extra bottle for matrix spike for EPTDS only

EPA 537



Grouping: List 1 Tests (6 Total):

EPA 524.3 EPTDS
EPA 522 EPTDS
EPA 200.8 EPTDS & DSMRT
EPA 218.7 EPTDS & DSMRT
EPA 300.1 EPTDS & DSMRT

Name: UCMR3 Perfluorinated Compounds

Test Codes: **EPA 537—EPTDS**



Instructions for Collection:

- Fill 2 Sample Bottles
- Transfer sealed Trip Blank to the empty Blank Bottle

Containers/Volume:

Sample: Slowly fill bottle to top of container, be sure not to over fill to prevent loss of preservative. Agitate to dissolve preservative. Field blank: Pour all contents of Trip Blank into Blank bottle at test site. Discard Trip Blank bottle.

4/250 mL Plastic; 2 Sample, 1 Blank,

1 Trip Blank

Name: UCMR3 Volatiles
Test Codes: EPA 524.3—EPTDS



Instructions for Collection:

- Do not open Trip Blanks
- Fill 4 Sample Vials with no headspace

Containers/Volume:

Slowly fill 4 Sample vials to top of container, be sure not to over fill. Remove air bubbles by inverting, and fill the remaining portion if bubbles found. There must be no headspace.

6/40 mL clear VOAs; 4 Sample; 2 Trip

Blanks

State of Utah Public Health Laboratory

SPECIALTY ANALYSES

Name: UCMR3 1,4 Dioxane

Test Codes: EPA 522—EPTDS



Instructions for Collection:

Fill 2 Sample Bottles
Agitate to dissolve
Add 4 mL vial, cap and mix Slowly fill sample bottle to neck, be sure not to over fill to prevent loss of preservative. Agitate to dissolve preservative. Once dissolved, add contents of 4 mL vial, cap, and mix.

Containers/Volume: 2/500 mL AG & 2/4 mL vial

Name: UCMR3 Metals

Test Codes: EPA 200.8—EPTDS & DSMRT



Instructions for Collection:

- Uncap sealed Trip Blank
- Fill the Sample Bottle
- Recap the Trip Blank
- List Location on Trip Blank

Containers/Volume:

Remove cap from blank exposure and place it facedown on a clean flat surface. Wait 5 seconds. Slowly fill sample bottle to top of container, be sure not to over fill to prevent loss of preservative. Agitate to dissolve preservative. Reseal blank bottle.

2/250 mL Plastic

Name: UCMR3 Hexavalent Chromium

Test Codes: EPA 218.7—EPTDS & DSMRT



Instructions for Collection:

• Fill 1 Sample Bottle

Containers/Volume:

Slowly fill sample bottle to top of container, be sure not to over fill to prevent loss of preservative. Agitate to dissolve preservative. Order new bottle if preservative expiration date has past.

100 mL Plastic

Name: UCMR3 Chlorate

Test Codes: EPA 300.1—EPTDS & DSMRT



Instructions for Collection:

Fill 1 Sample Bottle

Slowly fill bottle to top of container, be sure not to over fill to prevent loss of preservative. Agitate to dissolve preservative. (If using chlorine dioxide, sparge with an inert gas for 5 min

before preservation).

Containers/Volume: 100 mL Plastic

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Analyte	7.851 Code	JPHL Unit	Page Willips
Sodium	EPA 200.7-NA	Inorganic Chemistry-Metals	20
Sulfate	EPA 375.2-SO4	Inorganic Chemistry	23,35
Sulfide	EPA 376.2-SULI	Inorganic Chemistry	30
Thallium	EPA 200.8-TL	Inorganic Chemistry-Metals	35
TOC	SM 5310B-TOC	Inorganic Chemistry	30
Total Coliform	SM 9223B-Colilert	Environmental Microbiology	38
Total Coliform	SM 9222B-mENDO	Environmental Microbiology	38
TotalDissolvedSolid s (TDS)	EPA 160.1-TDS	Inorganic Chemistry	34,35
TotalSuspendedSol ids (TSS)	EPA 160.2-TSS	Inorganic Chemistry	34,35
Turbidity	EPA EPA 180.1-TURB	Inorganic Chemistry	32,35
Uranium	EPA 200.8-UUMS	Inorganic Chemistry-Metals	36,41
UV254	SM 5910B-UV254	Inorganic Chemistry	31
Vanadium	EPA 200.8-V	Inorganic Chemistry-Metals	20
Zinc	EPA 200.8-ZN	Inorganic Chemistry-Metals	20
4,4'-DDD	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
4,4'-DDE	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
4,4'-DDT	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Aldrin	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
alpha-BHC	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
beta-BHC	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Chlordane	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
delta-BHC	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Dieldrin	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Endosulfan I	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
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Analyte	Zest Code	JPHL Unit	Page Wirthort
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Endosulfan II	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Endosulfan sulfate	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Endrin	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Endrin aldehyde	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
gamma-BHC	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Heptachlor	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Heptachlor epoxide	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Methoxychlor	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
PCB-1016	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
PCB-1221	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
PCB-1232	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
PCB-1242	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
PCB-1248	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
PCB-1254	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
PCB-1260	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
Toxaphene	EPA 608-PCB/OcPest	Organic Chemistry-PCB/OcPest	14
1,1-Dichloroethane	EPA 624-VOC	Organic Chemistry-VOC	9
1,1-Dichloroethene	EPA 624-VOC	Organic Chemistry-VOC	9
1,1-Dichloropropene	EPA 624-VOC	Organic Chemistry-VOC	9
1,1,1-Trichloroethane	EPA 624-VOC	Organic Chemistry-VOC	9
1,1,1,2- Tetrachloroethane	EPA 624-VOC	Organic Chemistry-VOC	9
1,1,2-Trichloroethane	EPA 624-VOC	Organic Chemistry-VOC	9
1,1,2-1 richioro-1,2,2- trifluoroethane (Freon 113)	EPA 624-VOC	Organic Chemistry-VOC	9
1,1,2,2- Tetrachloroethane	EPA 624-VOC	Organic Chemistry-VOC	9
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Clean Water Act (CWA) – EPA 624-VOC

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Analyte	18 Code	JPHL Unit	2 sde Williper
AII	165/	18/	43°/
1,2-Dibromo-3-chloropropane	EPA 624-VOC	Organic Chemistry-VOC	9
1,2-Dichlorobenzene	EPA 624-VOC	Organic Chemistry-VOC	9
1,2-Dichloroethane	EPA 624-VOC	Organic Chemistry-VOC	9
1,2-Dichloropropane	EPA 624-VOC	Organic Chemistry-VOC	9
1,2-Dichlorotoluene	EPA 624-VOC	Organic Chemistry-VOC	9
1,2,3-Trichlorobenzene	EPA 624-VOC	Organic Chemistry-VOC	9
1,2,3-Trichloropropane	EPA 624-VOC	Organic Chemistry-VOC	9
1,2,4-Trichlorobenzene	EPA 624-VOC	Organic Chemistry-VOC	9
1,2,4-Trimethylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
1,3-Dichlorobenzene	EPA 624-VOC	Organic Chemistry-VOC	9
1,3-Dichloropropane	EPA 624-VOC	Organic Chemistry-VOC	9
1,3,5-Trimethylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
1,4-Dichlorobenzene	EPA 624-VOC	Organic Chemistry-VOC	9
,4-Dichlorotoluene	EPA 624-VOC	Organic Chemistry-VOC	9
,4-Isopropyltoluene	EPA 624-VOC	Organic Chemistry-VOC	9
2,2-Dichloropropane	EPA 624-VOC	Organic Chemistry-VOC	9
Benzene	EPA 624-VOC	Organic Chemistry-VOC	9
Bromobenzene	EPA 624-VOC	Organic Chemistry-VOC	9
Bromochloromethane	EPA 624-VOC	Organic Chemistry-VOC	9
Bromodichloromethane	EPA 624-VOC	Organic Chemistry-VOC	9
Bromoform	EPA 624-VOC	Organic Chemistry-VOC	9
Bromomethane	EPA 624-VOC	Organic Chemistry-VOC	9
Carbon tetrachloride	EPA 624-VOC	Organic Chemistry-VOC	9
Chlorobenzene	EPA 624-VOC	Organic Chemistry-VOC	9
Chlorodibromomethane	EPA 624-VOC	Organic Chemistry-VOC	9
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Analyte	Zest Code	JPHL LITH	Ge HILL
Arth	18/	N.	60g/
Chloroethane	EPA 624-VOC	Organic Chemistry-VOC	9
Chloroform	EPA 624-VOC	Organic Chemistry-VOC	9
Chloromethane	EPA 624-VOC	Organic Chemistry-VOC	9
cis-1,2-Dichloroethene	EPA 624-VOC	Organic Chemistry-VOC	9
cis-1,3-Dichloropropene	EPA 624-VOC	Organic Chemistry-VOC	9
Dibromomethane	EPA 624-VOC	Organic Chemistry-VOC	9
Dichlorodifluoromethane	EPA 624-VOC	Organic Chemistry-VOC	9
Ethylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
Ethylene dibromide	EPA 624-VOC	Organic Chemistry-VOC	9
Hexachlorobutadiene	EPA 624-VOC	Organic Chemistry-VOC	9
Isopropylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
Methylene chloride	EPA 624-VOC	Organic Chemistry-VOC	9
MTBE	EPA 624-VOC	Organic Chemistry-VOC	9
Napthalene	EPA 624-VOC	Organic Chemistry-VOC	9
n-Butylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
n-Propylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
sec-Butylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
Styrene	EPA 624-VOC	Organic Chemistry-VOC	9
tert-Butylbenzene	EPA 624-VOC	Organic Chemistry-VOC	9
Tetrachloroethene (PCE)	EPA 624-VOC	Organic Chemistry-VOC	9
Toluene	EPA 624-VOC	Organic Chemistry-VOC	9
trans-1,2-Dichloroethene	EPA 624-VOC	Organic Chemistry-VOC	9
trans-1,3-Dichloropropene	EPA 624-VOC	Organic Chemistry-VOC	9
Trichloroethene (TCE)	EPA 624-VOC	Organic Chemistry-VOC	9
Trichlorofluoromethane	EPA 624-VOC	Organic Chemistry-VOC	9
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Clean Water Act (CWA) – EPA 624-VOC Clean Water Act (CWA) – EPA 625-SVOC

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Arralyte	1851 Code	JPH Unit	2 age Willinger
Vinyl chloride	EPA 624-VOC	Organic Chemistry-VOC	9
Xylene	EPA 624-VOC	Organic Chemistry-VOC	9
1,2-Dichlorobenzene	EPA 625-SVOC	Organic Chemistry-SVOC	10
1,2,4-Trichlorobenzene	EPA 625-SVOC	Organic Chemistry-SVOC	10
1,3-Dichlorobenzene	EPA 625-SVOC	Organic Chemistry-SVOC	10
1,4-Dichlorobenzene	EPA 625-SVOC	Organic Chemistry-SVOC	10
2-Chloronaphthalene	EPA 625-SVOC	Organic Chemistry-SVOC	10
2-Chlorophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2-Methyl naphthalene	EPA 625-SVOC	Organic Chemistry-SVOC	10
2-Methyl phenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2-Methyl-4,6-dinitrophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2-Nitroaniline	EPA 625-SVOC	Organic Chemistry-SVOC	10
2-Nitrophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2,4-Dichlorophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2,4-Dimethylphenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2,4-Dinitrophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2,4-Dinitrotoluene	EPA 625-SVOC	Organic Chemistry-SVOC	10
2,4,6-Trichlorophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
2,6-Dinitrotoluene	EPA 625-SVOC	Organic Chemistry-SVOC	10
3-Methyl phenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
3-Nitroaniline	EPA 625-SVOC	Organic Chemistry-SVOC	10
3,3'-Dichlorobenzidine	EPA 625-SVOC	Organic Chemistry-SVOC	10
4-Bromophenyl phenyl ether	EPA 625-SVOC	Organic Chemistry-SVOC	10
4-Chloroaniline	EPA 625-SVOC	Organic Chemistry-SVOC	10
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Clean Water Act (CWA) – EPA 625-SVOC

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Ario	Test Code	JPI	Page Muniber
4-Chlorophenyl phenyl ether	EPA 625-SVOC	Organic Chemistry-SVOC	10
4-Chloro-3-methyl phenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
4-Methyl phenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
4-Nitroaniline	EPA 625-SVOC	Organic Chemistry-SVOC	10
4-Nitrophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
Acenaphthene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Acenaphthylene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Aniline	EPA 625-SVOC	Organic Chemistry-SVOC	10
Anthracene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzidine	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzo (a) anthracene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzo (a) pyrene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzo (b) fluoranthene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzo (g,h,i) perylene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzo (k) fluoranthene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzylbutylphthalate	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzyl alcohol	EPA 625-SVOC	Organic Chemistry-SVOC	10
Benzoic acid	EPA 625-SVOC	Organic Chemistry-SVOC	10
bis (2-chloroethyl) ether	EPA 625-SVOC	Organic Chemistry-SVOC	10
bis (2-chloroethoxy) methane	EPA 625-SVOC	Organic Chemistry-SVOC	10
bis (2-chloroisopropyl) ether	EPA 625-SVOC	Organic Chemistry-SVOC	10
bis (2-ethylhexyl) phthalate	EPA 625-SVOC	Organic Chemistry-SVOC	10
Chrysene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Dibenzo (a,h) anthracene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Dibenzofuran	EPA 625-SVOC	Organic Chemistry-SVOC	10
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Analyte	1851 Code	JPH Juit	2308 1
Diethyl phthalate	EPA 625-SVOC	Organic Chemistry-SVOC	10
Dimethyl phthalate	EPA 625-SVOC	Organic Chemistry-SVOC	10
Di-n-butyl phthalate	EPA 625-SVOC	Organic Chemistry-SVOC	10
Di-n-octyl phthalate	EPA 625-SVOC	Organic Chemistry-SVOC	10
Fluoranthene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Fluorene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Hexachlorobenzene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Hexachlorobutadiene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Hexachlorocyclopentadiene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Hexachloroethane	EPA 625-SVOC	Organic Chemistry-SVOC	10
Indeno (1,2,3-cd) pyrene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Isophorone	EPA 625-SVOC	Organic Chemistry-SVOC	10
n-Nitrosodimethylamine	EPA 625-SVOC	Organic Chemistry-SVOC	10
n-Nitrosodiphenylamine	EPA 625-SVOC	Organic Chemistry-SVOC	10
n-Nitrosodipropylamine	EPA 625-SVOC	Organic Chemistry-SVOC	10
Naphthalene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Nitrobenzene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Pentachlorophenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
Phenanthrene	EPA 625-SVOC	Organic Chemistry-SVOC	10
Phenol	EPA 625-SVOC	Organic Chemistry-SVOC	10
Pyrene	EPA 625-SVOC	Organic Chemistry-SVOC	10

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Resource Conservation and Recovery Act (RCRA) – EPA 8081-PCB/OcPest

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AIL	18°/	4/	()1/	
4,4'-DDD	EPA 8081-OcPest	U060	Organic Chemistry-PCB/OcPest	14
4,4'-DDE	EPA 8081-OcPest		Organic Chemistry-PCB/OcPest	14
4,4'-DDT	EPA 8081-OcPest	U061	Organic Chemistry-PCB/OcPest	14
Aldrin	EPA 8081-OcPest	P005	Organic Chemistry-PCB/OcPest	14
alpha-BHC	EPA 8081-OcPest	U129	Organic Chemistry-PCB/OcPest	14
beta-BHC	EPA 8081-OcPest		Organic Chemistry-PCB/OcPest	14
Chlordane	EPA 8081-OcPest	D020	Organic Chemistry-PCB/OcPest	14,16
delta-BHC	EPA 8081-OcPest		Organic Chemistry-PCB/OcPest	14
Dieldrin	EPA 8081-OcPest	P037	Organic Chemistry-PCB/OcPest	14
Endosulfan I	EPA 8081-OcPest	P050	Organic Chemistry-PCB/OcPest	14
Endosulfan II	EPA 8081-OcPest	P050	Organic Chemistry-PCB/OcPest	14
Endosulfan sulfate	EPA 8081-OcPest	P050	Organic Chemistry-PCB/OcPest	14
Endrin	EPA 8081-OcPest	D012	Organic Chemistry-PCB/OcPest	14,16
Endrin aldehyde	EPA 8081-OcPest	D012	Organic Chemistry-PCB/OcPest	14
gamma-BHC (Lindane)	EPA 8081-OcPest	D013	Organic Chemistry-PCB/OcPest	14,16
Heptachlor	EPA 8081-OcPest	D031	Organic Chemistry-PCB/OcPest	14,16
Heptachlor epoxide	EPA 8081-OcPest	D031	Organic Chemistry-PCB/OcPest	14,16
Methoxychlor	EPA 8081-OcPest	D014	Organic Chemistry-PCB/OcPest	14,16
PCB-1016	EPA 8082-PCB		Organic Chemistry-PCB/OcPest	14
PCB-1221	EPA 8082-PCB		Organic Chemistry-PCB/OcPest	14
PCB-1232	EPA 8082-PCB		Organic Chemistry-PCB/OcPest	14
PCB-1242	EPA 8082-PCB		Organic Chemistry-PCB/OcPest	14
PCB-1248	EPA 8082-PCB		Organic Chemistry-PCB/OcPest	14
PCB-1254	EPA 8082-PCB		Organic Chemistry-PCB/OcPest	14
PCB-1260	EPA 8082-PCB		Organic Chemistry-PCB/OcPest	14
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Analyte	rest code	24 HW M	O. John Thit	MILL
AM	₹ ⁸ / €		38/ 48%	
Toxaphene	EPA 8081-OcPest	D015	Organic Chemistry- PCB/OcPest	14,16
*Add-ons	EPA 8081-OcPest		Organic Chemistry- PCB/OcPest	14
2,4-D	EPA 8151-Herbicides	D016	Organic Chemistry-Herbicides	11,16
2,4,5-TP (Silvex)	EPA 8151-Herbicides	D017	Organic Chemistry-Herbicides	11,16
Dalapon	EPA 8151-Herbicides		Organic Chemistry-Herbicides	11
Dinoseb	EPA 8151-Herbicides	P020	Organic Chemistry-Herbicides	11
Pentachlorophenol	EPA 8151-Herbicides	D037	Organic Chemistry-Herbicides	11,16
Picloram	EPA 8151-Herbicides		Organic Chemistry-Herbicides	11
*Add-ons	EPA 8151-Herbicides		Organic Chemistry-Herbicides	11
1,1-Dichloroethane	EPA 8260-VOC		Organic Chemistry-VOC	9
1,1-Dichloroethene	EPA 8260-VOC	D029	Organic Chemistry-VOC	9,16
1,1-Dichloropropene	EPA 8260-VOC		Organic Chemistry-VOC	9
1,1,1-Trichloroethane	EPA 8260-VOC		Organic Chemistry-VOC	9
1,1,1,2-Tetrachloroethane	EPA 8260-VOC	U208	Organic Chemistry-VOC	9
1,1,2-Trichloroethane	EPA 8260-VOC	U227	Organic Chemistry-VOC	9
1,1,2-Trichloro-1,2,2- trifluoroethane (Freon 113)	EPA 8260-VOC		Organic Chemistry-VOC	9
1,1,2,2-Tetrachloroethane	EPA 8260-VOC	U209	Organic Chemistry-VOC	9
1,2-Dibromo-3- chloropropane	EPA 8260-VOC	U066	Organic Chemistry-VOC	9
1,2-Dichlorobenzene	EPA 8260-VOC	U070	Organic Chemistry-VOC	9
1,2-Dichloroethane	EPA 8260-VOC	D028	Organic Chemistry-VOC	9,16
1,2-Dichloropropane	EPA 8260-VOC	U083	Organic Chemistry-VOC	9
1,2-Dichlorotoluene	EPA 8260-VOC		Organic Chemistry-VOC	9
1,2,3-Trichlorobenzene	EPA 8260-VOC		Organic Chemistry-VOC	9

^{*}Tentative analysis by special request, record specific analyte on test request form and schedule at 801-965-2400

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Resource Conservation and Recovery Act (RCRA) – EPA 8260-VOC

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Arralyte	rest Code	YAG	M MO. JPHI Juit	ode Will
ki/	~ /	\$/	35/	80/
1,2,3-Trichloropropane	EPA 8260-VOC		Organic Chemistry-VOC	9
1,2,4-Trichlorobenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
1,2,4-Trimethylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
1,3-Dichlorobenzene	EPA 8260-VOC	U071	Organic Chemistry-VOC	9
1,3-Dichloropropane	EPA 8260-VOC	U084	Organic Chemistry-VOC	9
1,3,5-Trimethylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
1,4-Dichlorobenzene	EPA 8260-VOC	D027	Organic Chemistry-VOC	9,16
1,4-Dichlorotoluene	EPA 8260-VOC	U072	Organic Chemistry-VOC	9
1,4-Isopropyltoluene	EPA 8260-VOC		Organic Chemistry-VOC	9
2,2-Dichloropropane	EPA 8260-VOC		Organic Chemistry-VOC	9
Benzene	EPA 8260-VOC	D018	Organic Chemistry-VOC	9,16
Bromobenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
Bromochloromethane	EPA 8260-VOC		Organic Chemistry-VOC	9
Bromodichloromethane	EPA 8260-VOC		Organic Chemistry-VOC	9
Bromoform	EPA 8260-VOC	U225	Organic Chemistry-VOC	9
Bromomethane	EPA 8260-VOC	U029	Organic Chemistry-VOC	9
Carbon tetrachloride	EPA 8260-VOC	D019	Organic Chemistry-VOC	9,16
Chlorobenzene	EPA 8260-VOC	D021	Organic Chemistry-VOC	9,16
Chlorodibromomethane	EPA 8260-VOC		Organic Chemistry-VOC	9
Chloroethane	EPA 8260-VOC	U045	Organic Chemistry-VOC	9
Chloroform	EPA 8260-VOC	D022	Organic Chemistry-VOC	9,16
Chloromethane	EPA 8260-VOC	U045	Organic Chemistry-VOC	9
cis-1,2-Dichloroethene	EPA 8260-VOC		Organic Chemistry-VOC	9
cis-1,3-Dichloropropene	EPA 8260-VOC		Organic Chemistry-VOC	9

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	ode	/	M MO. JPH JIN	Page Willips
Analyte	7est code	ER PY	M NO. JEHL This	Q ade
Dibromomethane	EPA 8260-VOC	U068	Organic Chemistry-VOC	9
Dichlorodifluoromethane	EPA 8260-VOC	U075	Organic Chemistry-VOC	9
Ethylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
Ethylene dibromide	EPA 8260-VOC	U067	Organic Chemistry-VOC	9
Hexachlorobutadiene	EPA 8260-VOC	D033	Organic Chemistry-VOC	9,16
Isopropylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
Methyl ethyl ketone*	EPA 8260-VOC	D035	Organic Chemistry-VOC	9,16
Methylene chloride	EPA 8260-VOC	U080	Organic Chemistry-VOC	9
MTBE	EPA 8260-VOC		Organic Chemistry-VOC	9
Napthalene	EPA 8260-VOC		Organic Chemistry-VOC	9
n-Butylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
n-Propylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
sec-Butylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
Styrene	EPA 8260-VOC		Organic Chemistry-VOC	9
tert-Butylbenzene	EPA 8260-VOC		Organic Chemistry-VOC	9
Tetrachloroethene (PCE)	EPA 8260-VOC	D039	Organic Chemistry-VOC	9,16
Toluene	EPA 8260-VOC	U220	Organic Chemistry-VOC	9
trans-1,2-Dichloroethene	EPA 8260-VOC	U079	Organic Chemistry-VOC	9
trans-1,3-Dichloropropene	EPA 8260-VOC	U084	Organic Chemistry-VOC	9
Trichloroethene (TCE)	EPA 8260-VOC	D040	Organic Chemistry-VOC	9,16
Trichlorofluoromethane	EPA 8260-VOC	U121	Organic Chemistry-VOC	9
Vinyl chloride	EPA 8260-VOC	D043	Organic Chemistry-VOC	9,16
Xylene	EPA 8260-VOC	U239	Organic Chemistry-VOC	9
*Add-ons	EPA 8260-VOC		Organic Chemistry-VOC	9

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^{*}Tentative analysis by special request, record specific analyte on test request form and schedule at 801-965-2400

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Analyte	Test Code	PAY	M NO. JPHI JUIL	O S DE MIL
*/	`/	* /	~/	`/
1,2-Dichlorobenzene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
1,2,4-Trichlorobenzene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
1,3-Dichlorobenzene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
1,4-Dichlorobenzene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
2-Chloronaphthalene	EPA 8270-SVOC	U047	Organic Chemistry-SVOC	10
2-Chlorophenol	EPA 8270-SVOC	U048	Organic Chemistry-SVOC	10
2-Methyl naphthalene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
2-Methyl phenol (o-Cresol)	EPA 8270-SVOC	D023	Organic Chemistry-SVOC	10,16
2-Methyl-4,6-dinitrophenol	EPA 8270-SVOC		Organic Chemistry-SVOC	10
2-Nitroaniline	EPA 8270-SVOC		Organic Chemistry-SVOC	10
2-Nitrophenol	EPA 8270-SVOC		Organic Chemistry-SVOC	10
2,4-Dichlorophenol	EPA 8270-SVOC	U081	Organic Chemistry-SVOC	10
2,4-Dimethylphenol	EPA 8270-SVOC	U101	Organic Chemistry-SVOC	10
2,4-Dinitrophenol	EPA 8270-SVOC	P048	Organic Chemistry-SVOC	10
2,4-Dinitrotoluene	EPA 8270-SVOC	D030	Organic Chemistry-SVOC	10,16
2,4,5-Trichlorophenol	EPA 8270-SVOC	D041	Organic Chemistry-SVOC	10,16
2,4,6-Trichlorophenol	EPA 8270-SVOC	D042	Organic Chemistry-SVOC	10,16
2,6-Dinitrotoluene	EPA 8270-SVOC	U106	Organic Chemistry-SVOC	10
3-Methyl phenol (m-Cresol)	EPA 8270-SVOC	D024	Organic Chemistry-SVOC	10,16
3-Nitroaniline	EPA 8270-SVOC		Organic Chemistry-SVOC	10
3,3'-Dichlorobenzidine	EPA 8270-SVOC	U073	Organic Chemistry-SVOC	10
4-Bromophenyl phenyl ether	EPA 8270-SVOC	U030	Organic Chemistry-SVOC	10
4-Chloroaniline	EPA 8270-SVOC	P024	Organic Chemistry-SVOC	10
4-Chlorophenyl phenyl ether	EPA 8270-SVOC		Organic Chemistry-SVOC	10
4-Chloro-3-methyl phenol	EPA 8270-SVOC	U039	Organic Chemistry-SVOC	10

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R.	\ \ /	4/	21/	80/
4-Methyl phenol (p-Cresol)	EPA 8270-SVOC	D025	Organic Chemistry-SVOC	10,16
4-Nitroaniline	EPA 8270-SVOC	P077	Organic Chemistry-SVOC	10
4-Nitrophenol	EPA 8270-SVOC	U170	Organic Chemistry-SVOC	10
Acenaphthene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Acenaphthylene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Aniline	EPA 8270-SVOC	U012	Organic Chemistry-SVOC	10
Anthracene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Benzidine	EPA 8270-SVOC	U021	Organic Chemistry-SVOC	10
Benzo (a) anthracene	EPA 8270-SVOC	U018	Organic Chemistry-SVOC	10
Benzo (a) pyrene	EPA 8270-SVOC	U022	Organic Chemistry-SVOC	10
Benzo (b) fluoranthene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Benzo (g,h,i) perylene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Benzo (k) fluoranthene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Benzylbutylphthalate	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Benzyl alcohol	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Benzoic acid	EPA 8270-SVOC		Organic Chemistry-SVOC	10
bis (2-chloroethyl) ether	EPA 8270-SVOC	U025	Organic Chemistry-SVOC	10
bis (2-chloroethoxy) methane	EPA 8270-SVOC	U046	Organic Chemistry-SVOC	10
bis (2-chloroisopropyl) ether	EPA 8270-SVOC	U027	Organic Chemistry-SVOC	10
bis (2-ethylhexyl) phthalate	EPA 8270-SVOC	U028	Organic Chemistry-SVOC	10
Chrysene	EPA 8270-SVOC	U050	Organic Chemistry-SVOC	10
Dibenzo (a,h) anthracene	EPA 8270-SVOC	U063	Organic Chemistry-SVOC	10
Dibenzofuran	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Diethyl phthalate	EPA 8270-SVOC	U088	Organic Chemistry-SVOC	10
Dimethyl phthalate	EPA 8270-SVOC	U102	Organic Chemistry-SVOC	10

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Analyte	18st Code	EPAY	M NO. JPH Juit	25de Willipst
Di-n-butyl phthalate	EPA 8270-SVOC	U069	Organic Chemistry-SVOC	10
Di-n-octyl phthalate	EPA 8270-SVOC	U107	Organic Chemistry-SVOC	10
Fluoranthene	EPA 8270-SVOC	U120	Organic Chemistry-SVOC	10
Fluorene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Hexachlorobenzene	EPA 8270-SVOC	D032	Organic Chemistry-SVOC	10,16
Hexachlorobutadiene	EPA 8270-SVOC	D033	Organic Chemistry-SVOC	10,16
Hexachlorocyclopentadiene	EPA 8270-SVOC	U130	Organic Chemistry-SVOC	10
Hexachloroethane	EPA 8270-SVOC	D034	Organic Chemistry-SVOC	10,16
Ideno (1,2,3-cd) pyrene	EPA 8270-SVOC	U137	Organic Chemistry-SVOC	10
Isophorone	EPA 8270-SVOC		Organic Chemistry-SVOC	10
n-Nitrosodimethylamine	EPA 8270-SVOC	P082	Organic Chemistry-SVOC	10
n-Nitrosodiphenylamine	EPA 8270-SVOC		Organic Chemistry-SVOC	10
n-Nitrosodipropylamine	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Naphthalene	EPA 8270-SVOC	U165	Organic Chemistry-SVOC	10
Nitrobenzene	EPA 8270-SVOC	D036	Organic Chemistry-SVOC	10,16
Pentachlorophenol	EPA 8270-SVOC	D037	Organic Chemistry-SVOC	10,16
Phenanthrene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
Phenol	EPA 8270-SVOC	U188	Organic Chemistry-SVOC	10
Pyrene	EPA 8270-SVOC		Organic Chemistry-SVOC	10
*Pyridine	EPA 8270-SVOC	D038	Organic Chemistry-SVOC	10,16
*Add-ons	EPA 8270-SVOC		Organic Chemistry-SVOC	10

^{*}Tentative analysis by special request, record specific analyte on test request form and schedule at 801-965-2400

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Analyte	185 Code	JPH Jrit	de Muli
Arr	16°/	N.	400/
2,4-D	EPA 515.1	Organic Chemistry-Herbicides	11,12
2,4,5-TP (Silvex)	EPA 515.1	Organic Chemistry-Herbicides	11,12
3-Hyrdroxycarbofuran	EPA 531.1	Organic Chemistry-Carbamates	11,12
Aldicarb (Temik)	EPA 531.1	Organic Chemistry-Carbamates	11,12
Aldicarb sulfone	EPA 531.1	Organic Chemistry-Carbamates	11,12
Aldicarb sulfoxide	EPA 531.1	Organic Chemistry-Carbamates	11,12
Alkalinity	SM 2320B-ALK	Inorganic Chemistry	30,34
Aluminum	EPA 200.8-AL	Inorganic Chemistry-Metals	20
Ammonia	EPA 350.1-NH3	Inorganic Chemistry-Nutrients	22,24
Antimony	EPA 200.8-SB	Inorganic Chemistry-Metals	20
Arsenic	EPA 200.8-AS	Inorganic Chemistry-Metals	19,20
Barium	EPA 200.8-BA	Inorganic Chemistry-Metals	20
Beryllium	EPA 200.8-BE	Inorganic Chemistry-Metals	20
Boron	EPA 200.7-B	Inorganic Chemistry-Metals	20
Bromate	EPA 300.0-BRO3	Inorganic Chemistry	28
Bromide	EPA 300.1-BRIC	Inorganic Chemistry	28
Bromodichloromethane	EPA 524.2-THM	Organic Chemistry-THM	8
Bromoform	EPA 524.2-THM	Organic Chemistry-THM	8
Cadmium	EPA 200.8-CD	Inorganic Chemistry-Metals	20
Calcium	EPA 200.7-CA	Inorganic Chemistry-Metals	20
Carbaryl (Sevin)	EPA 531.1	Organic Chemistry-Carbamates	11,12
Carbofuran (Furadan)	EPA 531.1	Organic Chemistry-Carbamates	11,12
Chlorate	EPA 300.0-CLO3	Inorganic Chemistry	28
Chloride	EPA 325.2-CL	Inorganic Chemistry	28,35

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Analyte	Test Code	JPHL LINI	Page Muriber
Chloride	EPA 300.0-CLIC	Inorganic Chemistry	28,35
Chlorite	EPA 300.0-CLO2	Inorganic Chemistry	28
Chlorodibromomethane	EPA 524.2-THM	Organic Chemistry-THM	8
Chloroform	EPA 524.2-THM	Organic Chemistry-THM	8
Chromium	EPA 200.8-CR	Inorganic Chemistry-Metals	20
Chromium-IV	EPA 218.7-CR6+	Inorganic Chemistry	35
Cobalt	EPA 200.8-CO	Inorganic Chemistry-Metals	20
Color	EPA 110.2-L-COLR	Inorganic Chemistry	17,27
Conductivity	EPA 120.1-COND	Inorganic Chemistry	26,41
Copper	EPA 200.8-CU	Inorganic Chemistry-Metals	20
Corrosivity	EPA 1110 CORR	Inorganic Chemistry	17,26
Cryptosporidium	EPA 1623	Environmental Microbiology	39
Cyanide	EPA 335.4-CNCL	Inorganic Chemistry	29
Dalapon	EPA 515.1	Organic Chemistry-Herbicides	11,12
Dibromoacetic acid	SM 6251B-HAA	Organic Chemistry-HAA	8
Dichloroacetic acid	SM 6251B-HAA	Organic Chemistry-HAA	8
Dinoseb	EPA 515.1	Organic Chemistry-Herbicides	11,12
E. coli	SM 9223B-Colilert	Environmental Microbiology	38
Enterococcus	Enterolert	Environmental Microbiology	40
Fecal Coliform	SM 9221E-EC	Environmental Microbiology	38
Fluoride	EPA 300.0-FLIC	Inorganic Chemistry	30,35
Giardia	EPA 1623	Environmental Microbiology	33
Gross Alpha	EPA 900.0-ALPG	Radiologic Chemistry	41
Gross Beta	EPA 900.0-BETG	Radiologic Chemistry	41
Gross Gamma	EPA 901.1-GAMG	Radiologic Chemistry	43
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Analyte	1est Code	JPH Unit	Page Withing
AII	18°/	N/	400
Hardness	HARD	Inorganic Chemistry	27,35
Heterotrophic Plate	SM 9215B-HPC	Environmental Microbiology	38
Count Iron	EPA 200.7-FE	Inorganic Chemistry-Metals	20
Lead	EPA 200.8-PB	Inorganic Chemistry-Metals	20
Legionella	SM 9260J	Environmental Microbiology	40
Magnesium	EPA 200.7-MG	Inorganic Chemistry-Metals	20
Manganese	EPA 200.8-MN	Inorganic Chemistry-Metals	20
Mercury	EPA 245.1-HG	Inorganic Chemistry-Metals	19,20
Methomyl	EPA 531.1	Organic Chemistry-Carbamates	11,12
Molybdenum	EPA 200.8-MO	Inorganic Chemistry-Metals	20
Monobromoacetic acid	SM 6215B-HAA	Organic Chemistry-HAA	8
Monochloroacetic acid	SM 6215B-HAA	Organic Chemistry-HAA	8
Nickel	EPA 200.8-NI	Inorganic Chemistry-Metals	20
Nitrate+Nitrite	EPA 353.2-NO2+NO3	Inorganic Chemistry-Nutrients	23,24
Nitrite (only)	EPA 353.2-NO2	Inorganic Chemistry-Nutrients	23,24
Odor	EPA 140.1-ODOR	Inorganic Chemistry	17,27
Oxamyl (Vydate)	EPA 531.1	Organic Chemistry-Carbamates	11,12
Pentachlorophenol	EPA 515.1	Organic Chemistry-Herbicides	11,12
Perchlorate	EPA 314.0-CLO4	Inorganic Chemistry	29
рН	EPA 150.1-PH	Inorganic Chemistry	25,34
Phosphate	EPA 365.1-TPO4	Inorganic Chemistry-Nutrients	22,24
Picloram	EPA 515.1	Organic Chemistry-Herbicides	11,12
Potassium	EPA 200.7-K	Inorganic Chemistry-Metals	20
Radium-226	EPA 903.1-226R	Radiologic Chemistry	42
Radium-228	EPA 904.0-226R	Radiologic Chemistry	42
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Analyte	Zest Code	JPH JIN	GE WILL
Arte	48°/	18.	4 mg/
Radon	EPA 913.0-RN	Radiologic Chemistry	43
Selenium	EPA 200.8-SE	Inorganic Chemistry-Metals	20
Silica	EPA 370.1-SIO2	Inorganic Chemistry	34
Silver	EPA 200.8-AG	Inorganic Chemistry-Metals	20
Sodium	EPA 200.7-NA	Inorganic Chemistry-Metals	20
Sulfate	EPA 300.0-SO4C	Inorganic Chemistry	23,35
Sulfide	EPA 376.2-SULI	Inorganic Chemistry	30
Thallium	EPA 200.8-TL	Inorganic Chemistry-Metals	35
TOC	SM 5310B-TOC	Inorganic Chemistry	30
Total Coliform	SM 9223B-Colilert	Environmental Microbiology	38
Total Coliform	SM 9222B-mENDO	Environmental Microbiology	38
Total Dissolved Solids (TDS)	EPA 160.1-TDS	Inorganic Chemistry	34,35
TotalSuspendedSolids (TSS)	EPA 160.2-TSS	Inorganic Chemistry	34,35
Trichloroacetic acid	SM 6251B-HAA	Organic Chemistry-HAA	8
Turbidity	EPA 180.1-TURB	Inorganic Chemistry	32,35
Uranium	EPA 200.8-UUMS	Inorganic Chemistry-Metals	36,41
UV254	SM 5910B-UV254	Inorganic Chemistry	31
Vanadium	EPA 200.8-V	Inorganic Chemistry-Metals	20
Zinc	EPA 200.8-ZN	Inorganic Chemistry-Metals	20
1,1-Dichloroethane	EPA 524.2-VOC	Organic Chemistry-VOC	9,12
1,1-Dichloroethene	EPA 524.2-VOC	Organic Chemistry-VOC	9,12
1,1-Dichloropropene	EPA 524.2-VOC	Organic Chemistry-VOC	9,12
1,1,1-Trichloroethane	EPA 524.2-VOC	Organic Chemistry-VOC	9,12
1,1,2-Trichloroethane	EPA 524.2-VOC	Organic Chemistry-VOC	9,12
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Analyte	785 Code	JPH Juit	C. Munt.
Anall	185 /	JRY	430g
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APPENDIX INORGANIC AND METAL CHEMISTRY

Name: **Selenium Hydride**Test Code: **SM 3114C (modified)**



Grouping: Metals

Application: Drinking Water

Surface Water Groundwater

Analyte: Selenium Hydride

Instructions for Collection: Allow source to flow for a few minutes until water temperature

stabilizes. Slowly fill to top of container, be sure not to over fill

to prevent loss of preservative.

Required Containers/Volume: 250 mL Metals – plastic bottle

Preservative and Handling: Add HNO₃ to pH <2, refrigerate or store on ice and do not

allow to freeze, recommend next day receipt at lab, holding

times,180 days to analyze

Method Technology: Hydride AA

State of Utah Public Health Laboratory

INSTRUCTIONS

USE OF TEST REQUEST FORMS

When filling out test request forms the following fields of information must be completed for proper identification of samples at time of receipt:

System Name / Agency Name

System Number / Agency Code

Cost Code / Project Code

Contact Information

(phone number is required)

Person Submitting Samples

(point of contact for clarifications)

Billing Information

(if submitting samples for first time or if updates are needed)

If you are unsure of your system name and number or agency code, please contact the laboratory prior to sample submission at or for drinking water samples contact the Division of Drinking Water at 801-536-4200. If you do not have a system number and have not submitted samples to the laboratory before, a system number will be assigned at time of sample receipt.

Short lists of Agency Codes, Cost Codes / Project Codes, Sample Source Codes, and Sample Type Codes are referenced on page 72. Source and Type codes may be recorded in comments field. If you do not know which cost code or project code applies to your samples, please contact the laboratory.

USE OF CHAIN OF CUSTODY

When submitting chain of custody samples, please complete the following steps to ensure proper preservation of sample integrity:

Place Seals on Sample Container Lid or Cap or over the cooler. (must be initialed and dated at time of collection)

Identify Continuous Sample Possession

(signatures for dispatch, courier, relinquish, and so forth) located at bottom of chain-of-custody form

Verify Laboratory Receipt

(obtain copy of form when signed by DLS staff at time of receipt)

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State of Utah Public Health Laboratory

INSTRUCTIONS

AGENCY CODES COST CODES / PROJECT CODES UDAQ Air Lead High Volume Study 731 Clean Lakes Project **UDWQ** 351 Ground Water Oversight 353 **UDWQ Ground Water Permits UDWQ** 352 Utah Division of Air Quality 321 UDAQ Utah Division of Drinking Water **UDDW** 361 Utah Division of Radiation Control UDRC 342 Utah Division of Radiation Control (Mixed Waste) UDRC 343 UDSHW Utah Division of Solid and Hazardous Waste 365/465 UDER Utah Division of Environmental Response & Remediation 367 **UDWQ** Utah Division of Water Quality (General) 350 **Public Drinking Water Systems, Billing Direct to Customer** 361B **Alliance Drinking Water Systems** 366 BRHL Bear River District Health Department 900 Central Utah Public Health Department CUHR 900 Davis County Health Department DCHD6 900 SLWQ Salt Lake Valley Health Department 900 Southeast Utah Public Health Department SEHP 900 **SWHC** Southwest Utah Public Health Department 900 Summit County Health Department SCHD1 900 Tooele County Health Department TCHD 900 UCHD3 **Utah County Health Department** 900 WCHD3 Wasatch County Health Department 900 Weber-Morgan Health Department WMHD9 900 **General Testing, Billing Direct to Customer** 901 SAMPLE SOURCE CODES SAMPLE TYPE CODES 1 Spring **Below Thermocline** 4 **Grab Sample** 27 2 Well 8 8 hr Composite 28 Indicate Depth 3 Stream 9 24 hr Composite 29 Lake Bottom 4 Lake 6 hr Composite 15 30 Sludge 7 Pipe/Effluent Lake Surface 40 Sediment 2 20 Influent 22 Lake Indicate Depth 50 Soil 22 **Primary Clarifier** 23 Lake Above Thermocline 60 Air 24 Trickling Filter Lake Indicate Depth 24 70 Tissue

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25

26

Lake Mid Depth

Indicate Depth

Blood

Urine

80

90

Secondary Clarifier

Above UV

Below UV

Bat Point

Other

Injection Well

26

30

31

32

33

14

State of Utah Public Health Laboratory

Sampling Request Instructions

To help reduce delays in processing your samples, please fill out one test form for each sample site. One sample site may have multiple bottles, but one form cannot have multiple collection sites. Complete the collection information on all of the bottles that are submitted and place completed form in a resalable bag. The Division of Drinking Water has requested some new fields on the forms—Facility ID and Sampling Point ID. If you are not certain what to put in those fields, please contact The Division of Drinking Water. Also, when making a sample delivery, please include a telephone number that is reachable 24-28 hours after sample has been received.

Please make sure you are using our current shipping address to prevent extra courier charges and delays in your shipment as well as to ensure that your environmental samples get delivered to the proper location once they are received at the lab, use one of these two addresses listed below. If the samples need to go to someone's attention at the lab, please contact them prior to shipping so they can coordinate with sample receiving.

Address options for shipping environmental samples:

FedEx or UPS	USPS
Utah Public Health Laboratory	Utah Public Health Laboratory
Attn BCES Sample Receiving	Attn BCES Sample Receiving
4431 S 2700 W	PO Box 144300
Taylorsville, UT 84129	Salt Lake City, UT 84131-9988
Utah Public Health Laboratory	Utah Public Health Laboratory
4431 S 2700 W	Rm 149
Rm 149	PO Box 144300
Taylorsville, UT 84129	Salt Lake City, UT 84131-9988

If there are any questions, call 801-965-2405. Thank you.

David Dick Environmental Chemistry Sample Receiving Utah Public Health Laboratory 4431 S 2700 W Taylorsville, UT 84129

Our business hours are Monday-Friday from 8 A.M. to 5 P.M.

Chemical and Environmental Laboratory – Client Services Manual State of Utah Public Health Laboratory

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LAB USE SECTION

Chemical and Environmental Services				
4431 S 2700 W Taylorsville, UT 84129-8600			LAB NU	MBER
801 965 2400 Fax 801 969 3238				
Single Collection Point Test Request Form		Date and Ti	ime Stamp	
Do not attach this form to the sample.	ner Number Cost/Project Code	4		
System/Agency value			Sample Recei	cipt Conditions
Public Water System Submitted By			Documentatio	
UTAH	O State Drinking Water Compliance Samples O Private Investigative Samples		O Yes C Proper contain	O No iners and in-date
First Name REPORTING/CONTACT Last Name			O Yes C	O No
PISI NAIDE REPORTING/CONTACT			O Yes	O No
Address City			Within holdin	-
			Coolant O Yes) No
State Zip Email		┷╸┃	Temperature	within-range
			O Yes C Acceptable pl	Н
Phone Fax	New Information Update Account		O Yes C Acceptable m	
			O Yes	
First Name BILLING SAME AS REPORTING Last Name			O Hand Do	
	$\top \top \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid$		O Shipped	Samples
Address City				
			LAB USE SI	
State Zip Email	Bottle	Qty	Temperature	pH
Phone		\Box	\dashv	
	<u> </u>	+++	- 	+++
Facility ID Collection Point Description / Project Name (if applicable)	- ++++	┼┼┼	+++	+++
	$\top \top \top \top \top \top \top \top \vdash \vdash \vdash \vdash \vdash$	+++	++	+++
Sampling Point ID Collection Point Description (Continued)		┼┼┼	╅┼┼	
Collector's Initials Collection Date Collection Time	Chlorine Residual ppm	+	╂┼┼	·
		+++	+++	+++
M M D D Y Y Y Y 24 Hour Clock		$\sqcup \sqcup$		
Collector's Comments		Щ	<u> </u>	<u>. </u>
		$\prod $	T .	. T T
Please place a check next to the analyte(s) to be tested. DO NOT make any other marks. If you n	ueed assistance with this form call 801 965 2405			
INORGANIC Nutrients, Dissolved (Type 9) Metals (check individual below) Chemistry Total DissolvedBTEX N	ORGANIC Gross Alpha and Radium 228 (Radionuclides		OLOGIC	
☐ Type 2 ☐ BOD ☐ ☐ Calcium	☐ Carbamates	Gross Be		IREM
Type 3	☐ Herbicides	Radium:	226	$\top \Box \Box$
☐ Bromide* ☐ Nitrite (only)* ☐ ☐ Arsenic	PCB/OcPest*	Uranium		
Chlorate*	608			
☐ Conductivity ☐ Sulfide ☐ Chromium ☐ Corrosivity ☐ TOC ☐ Lead			poridium and Giard	MICROBIOLOGY dia
□ PH □ UV254 □ Mercury □ Silica □ Selenium	525.2 625		field turbidity time start filtering	g
□ PH □ UV254 □ Mercury □ Silica □ Selenium □ Sulfate (Drinking Water) □ Inorganics and Metals (Type 9) □ Silver □ Sulfate (Other Water) □ New Drinking Water Source (Type 7)* □ Aluminum	☐ 8270 ☐ TPH		time end filtering total volume filte	
☐ TDS ☐ Antimony ☐ TSS ☐ Beryllium		Legionel		
☐ Turbidity METALS ☐ ☐ Boron ☐ Lead and Copper (Type 8) ☐ ☐ Cobalt	VOCs* 524.2	ADDI	TIONAL TESTS	3
Nutrients, Total	624 8260	_		
Nutrients, Total	Geosmin and MIB (525.2-Odor)			
☐ Ammonia ☐ Metals, Total Type 7 ☐ Nickel ☐ COD ☐ RCRA 8 Metals ☐ Thallium	-			
Nitrate and Nitrite				
Dissolved Samples Must Be	Filtered in the Field			



Water Bacteriological Analysis	Test Request Form	LAB USE SECTION
Utah Public Health Laboratory		
4431 S 2700 W Taylorsville, UT 84129-8	600	LAB NUMBER
801 965 2400 Fax 801 969 3238	Please fill out this form using block letters and with a black or blue pen	Received Date and Time Stamp
http://health.utah.gov/lab/chemistry Customer Number Public Water System	Do not attach this form to the sample.	
Customer Number Public Water System U T A H	Facility ID Sampling Point ID	Analyzed Date and Time Stamp
System/Agency Name		
	Sample Receipt Conditions	☐ Health Deptartment Investigative
Collection Point Description / Project Name (if applicable)	Temperature Ice	
Collection Point Description (Continued)	Contact Numbers	
	USL: Public Health - Environi State Division of Drinking Wa	
Please fill in the circles or check boxes next to the appropriate optic DO NOT make any other marks. If you need assistance with this form	call 801 965 2405. Contact Your Local Health De	epartment for Pool, Spa, and Hot Tub Information
Reporting O State Drinking Water Compliance Samples	Repeat Continued Original Sample Number Exceeded Holding Time	Unsatisfactory Sample
O Private Investigative O Repeat	☐ Out of Date Container ☐ Not State Lab Container	
Downstream Within 5 Of Original Sample Near First Service Connection	Orignial Sample Collection Date Container is Broken/Leakin Incomplete Documentaion	
Original Site Upstream Within 5 Of Original Sample	M M D D Y Y Y Y	
O TCR Repeat ONLY O TCR Repeat AND GW Source		Please Submit a New Sample
Other	Chlorine Residual ppm Matrix Testing O Drinking Water ■ Well 51	Additional Testing
	O Pool/Spa	
GWR Trigger Source Sample(s) Facility ID (Source #):	O Raw Water O Deionized or RO HPC Well 97 Under the control of the	51 LAB USE SECTION
WS	Other	1
Representative Site: SSG001		
Sample # of source(s) Sampled all sources in use at time of positive	Collector's First Name	
Other source(s) not in use	Collector's Last Name	
Name of Wholesaler		
	Collection Date Collection Time	
Date Wholesaler notified		
	Collector's Comments	
First Name REPORTING/CONTACT	Last Name	
Address	City	
		$\Box\Box$
State Zip	Email	
Phone Fa		
Phone Fa	New Information Update Accou	nt
First Name BILLING SAME AS REPORTING	Last Name	
Address	City	
State Zip	Email	
Phone Fa	x	

Pool/ Spa/ Hot tub samples will have a colilert test and a heterotropic plate count performed on each sample. All other samples will have only a colilert test performe1 unless specified in "other". The colilert test consists of coliform and *E. coli* analysis.

INSTRUCTIONS FOR COLLECTING WATER SAMPLES

- 1. Do not rinse bottle or touch the lip of bottle.
- 2. Use only approved containers.
- 3. Return sample to lab within 24 hours of collection and refrigerate or hold on ice until delivery, also do not allow to freeze. Preferably hold sample at less tha 10 degrees Celsius (50 degrees Fahrenheit)
- 4. Collect sample by removing aerator from tap and letting water run for 2-3 minutes. Fill bottle above the the 100 ml line
- 5. If collecting sample from lake, pond, or type of source water, submerge the bottle, forcing it forward with an even slow motion
- 6. Select sampling point that will be representative of the system being tested
- 7. Fill out test request form completely.

STATE OF UTAH COLIFORM REGULATIONS (FOR DRINKING WATER ONLY)

For routine sample which are total coliform positive

1. System must collect the number of repeat samples indicated below for each total coliform positive result

1-'opulation # of repeat samples 25-1,000 4 >1,000 3

- 2. The repeat samples must taken within 24 hours of the original positive sample and the repeat test request must indicate the lab number and date of the original positive sample. Specific locations of repeat samples are as follows:
 - a. within 5 service connections upstream
 - b. within 5 service connections downstream
 - c. at the original sample site
- 3. Additional samples are required for the next month's sampling. The number of additional samples are as follows

Population	# of routine	# of additional samples
25-1,000		4
1,000-2,500	2	3
2,500-3,300	3	2
3,300-4,100	4	
>4,100	5 or more	none

For E. coli positive samples and repeat samples resulting in total coliform positivel

- 1. If either the original routine sample or any of the repeat samples are fecal coliform positive for E. coli, an acute violation has occurred and public notice is required within 72 hours.
- 2. If both the original routine sample and all repeat samples are total coliform positive, a non-acute violation has occurred and public notice is required within 14 day

Pool/ Spa/ Hot tub samples will have a colilert test and a heterotropic plate count performed on each sample. All other samples will have only a colilert test performe1 unless specified in "other". The colilert test consists of coliform and E. coli analysis.

INSTRUCTIONS FOR COLLECTING WATER SAMPLES

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For routine sample which are total coliform positive

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 - a. within 5 service connections upstream
 - b. within 5 service connections downstream
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- 3. Additional samples are required for the next month's sampling. The number of additional samples are as follows

Population	# of routine	# of additional samples
25-1,000	1	4
1,000-2,500	2	3
2,500-3,300	3	2
3,300-4,100	4	
>4,100	5 or more	none

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- 2. If both the original routine sample and all repeat samples are total coliform positive, a non-acute violation has occurred and public notice is required within 14 day



CHAIN OF CUSTODY

Utah Public Health Laboratory Chemical and Environmental Services

4431 S 2700 W Taylorsville, UT 84129-86 801 965 2400 Fax 801 969 3238 http://health.utah.gov/lab/chemistry	00										Hand Delivered Shipped Samples Cooler Returned	
System/Agency Name:	System	/Agency Numbe	r: Cost/Pi	roject Code:		REQU	ESTED	TESTS	Receive	ed Date an	nd Time:	
REPORTING/CONTACT Attn: Address: City, State, Zip: Phone: Fax: Email: Submitted By:	Address: City, State, Zip:			I					Receipt temperature	Receipt pH	Sample Receipt Conditions Yes No Documentation complete Proper containers and in-date Containers intact Within holding time Coolant Temperature within-range Acceptable pH N/ Custody Seals Intact	
COLLECTION POINT DESCRIPTION	Initials	(mm/dd/yy)	(24 hr)	COMMENTS					Rec	Rec	LABNUMBER	
Dispatched By:			Courier Com	ier Company Name:				Invoice/Airbill #: Date and Time:				
Relinquished to USL:PH by:	Date and Tim	e:		Received at U	JSL:PH b	y:			Date an	d Time:		